TUCKERBILT®

T-630

OWNER'S MANUAL



CALIFORNIA PROPOSITION 65 INFORMATION

TO CALIFORNIA CUSTOMERS AND TO CUSTOMERS SELLING DIESEL ENGINE EQUIPMENT INTO - OR FOR USE IN - CALIFORNIA

Proposition 65, a California law, requires warnings on products which expose individuals in California to chemicals listed under that law, including certain chemicals in diesel engine exhaust.

Obligations of Manufacturers of Diesel-Powered Off-Road Equipment.
The California Superior Court has approved either of the following two methods if compliance with Proposition 65 requirements by manufacturers of off-road equipment containing diesel engines.

1. **On-Equipment Warning.**
   Place the warning pictured in attachment 1 on all equipment shipped by you into or for sale in California after January 1, 1996. The warning must be in a location where it is easily visible to the operator of the equipment when (s)he is operating the equipment. The warning must be secured to the equipment. If warnings or operating instructions are provided through a digital display, you may use that method of providing the warning.

2. **Operator Manual Warning.**
   When the operator manual is next revised or by December 31, 1995, whichever is earlier, place the warning in attachment 2 in the operator manual. The warning may be either printed in the manual or on a sticker.

   The warning must appear in one of the following locations:
   - Inside the front cover
   - Inside the back cover
   - Outside the front cover
   - Outside the back cover
   - As the first page of text

Under either alternative, the warning must appear in the same size, print and format as the attachment selected or be of an equally conspicuous size and format. If the warning is provided in an on-screen display, the warning must contain the language in the attachment and must be provided at the time of or in connection with ignition in the same manner as other safety warnings electronically communicated on screen.

Obligation of Resellers of Diesel Engines.
This letter must accompany any loose diesel engine sold in California.

Should you have any questions, please call the manufacturer’s representative.

ATTACHMENT 1

Warning to Place on Equipment

CALIFORNIA
Proposition 65 Warning
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

ATTACHMENT 2

Warning in the Manual

CALIFORNIA
Proposition 65 Warning
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

CALIFORNIA
Proposition 65 Warning
Diesel engine exhaust and some of the constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

PRODUCT
SUPPORT
BULLETIN

DEERE POWER SYSTEMS GROUP

DATE: 16 Sept 96

FUNCTIONAL GROUP CODE: 0400

SUBJECT: TAMPERING WITH CERTIFIED ENGINES

In the past it has been possible for customers, servicing dealers, and fuel injection repair dealers to change fuel delivery on diesel engines to increase diesel engine horsepower.

Deere and Company has never authorized that practice and continues with our policy today of discouraging this practice, considering it totally unacceptable.

Furthermore, as of 1 January 1996, United States EPA regulations For engines rated 175 hp and above, that were built after 1 January 1996, have taken effect, which now makes such a practice a violation of the law. There are now severe penalties for tampering with emissions-related equipment on engines. This includes adjusting fuel injection pumps to increase power, as well as any other changes or modifications to the air intake system (including turbocharger, manifold, etc.), engine timing, and/or exhaust manifold.

According to these emissions regulations, a dealer will be fined $25,000 per incident for any such engine tampering. A customer who performs this operation will be fined $2,500.

These same regulations will take effect for all engines over 100 engine hp on 1 January 1997, and will apply to all engines over 50 hp as of 1 January 1998.

It is important that all personnel within your dealership be made aware of these regulations to prevent any inadvertent violation of these regulations.

T-630 Recommended Service

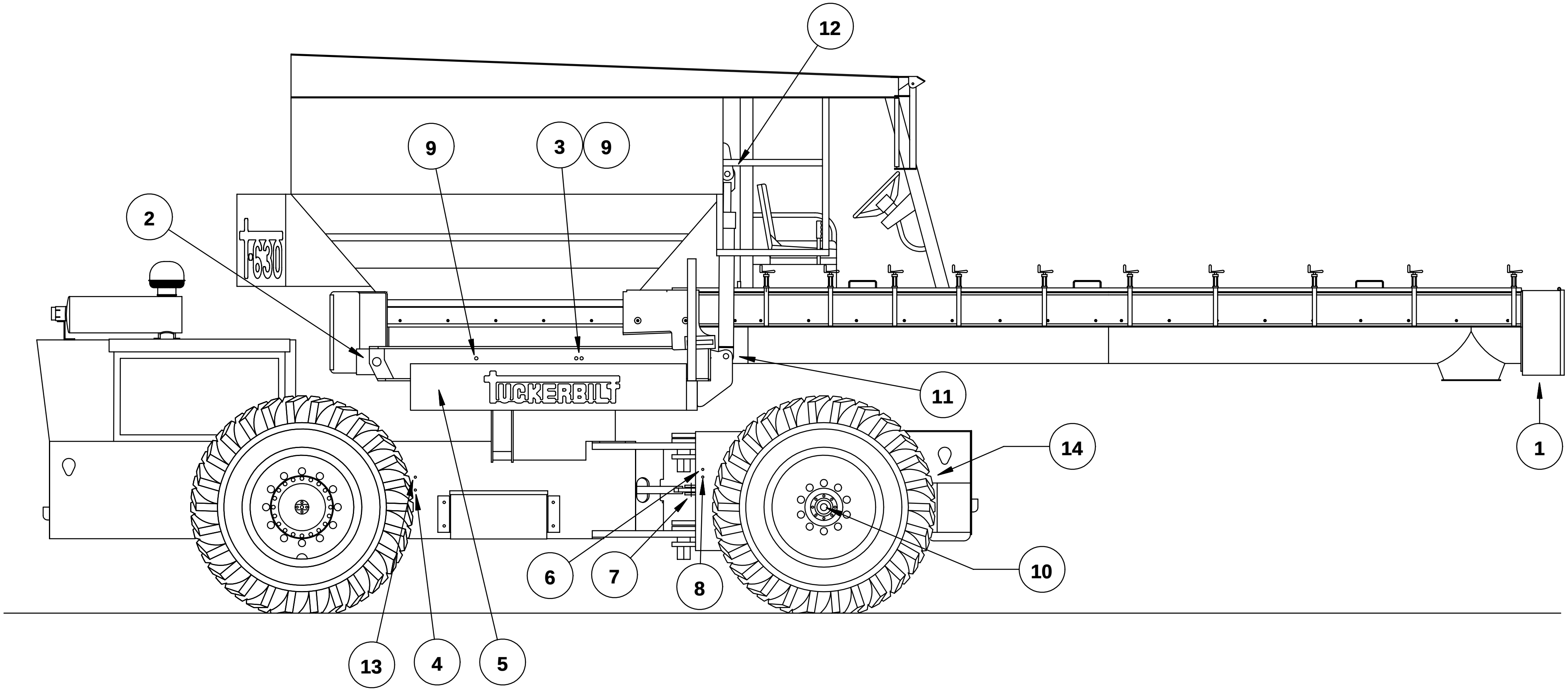
-- CAUTION --
Before Any Service or Maintenance

- Engine Must Be OFF.
- Set Park Brake and remove key.
- Lock Articulate Safety Lock Bar.
- Engage Auger Safety Catch.
- Do not allow unauthorized or unqualified personnel to operate or service this machine.

DAILY SERVICE:

1. Grease all fittings except front axle
2. Grease turntable
3. Check engine oil level *
4. Check engine air breather indicator
5. Check engine water (with engine cold)
6. Check auger seal and tighten if necessary
7. Check chain tensions (1/2" play) of:
   a. Turntable
   b. Turntable swing motor
   c. Auger drive
8. Lubricate turntable chain and swing motor chain
9. Check oil level in front axle (2 places)**
10. Fuel T-630*

* For engine oil and filter recommendations consult engine manufacturer’s manual.
** 90 - 120w Gear Lube.



LUBRICATION POINTS

T-630 Lube Points

KEY	DAILY SERVICE
1	FRONT AUGER BEARING - End of Chute
2	HOPPER PIVOT - 1 Fitting on Right Side & 1 Fitting on Left Side
3	TURNTABLE PIVOT BEARING
4	STEERING CYLINDER REAR PIVOT - 1 Fitting on Right Side & 1 Fitting on Left Side
5	TURNTABLE CHAIN SPROCKETS - Left Side (6 Locations)
6	TOP FRAME PIVOT
7	STEERING CYLINDER FRONT PIVOT
8	LOWER FRAME PIVOT
9	TURNTABLE TRACK

KEY	DAILY SERVICE
10	FRONT AXLE - Hub Oil Cap (Visual Check)
11	LIFT CYLINDER - LOWER - 1 Fitting Each Cylinder
12	LIFT CYLINDER - UPPER - 1 Fitting Each Cylinder
13	TOURQE HUB GREASE BOLT - 1 Fitting Each Hub
13	
	WEEKLY SERVICE
14	FRONT AXLE - 6 Locations on Brake Rods

few 2/17/06

WEEKLY SERVICE:

1. Check hydraulic oil (engine must be off)
2. Check tire pressure (65 PSI)
3. Check battery water level

   -- CAUTION --
   Engine must be OFF, Park Brake must be ON, and Articulate Safety Lock Bar must be LOCKED.

4. Grease front axle

MONTHLY SERVICE:

1. Check two (2) Fairfield gearboxes gear lube levels**
2. Test Engine Safety Shutdown

AFTER FIRST 50 HOURS THEN EVERY 300 HOURS OR 3 MONTHS SERVICE:

1. Change Sunstrand Suction Filter
2. Change Twin Return Filters
3. Change Gear Lube in Fairfield Hubs (80-140 w/EP additive)

YEARLY SERVICE:

1. One (1) strainer in hydraulic tank should be removed and cleaned
2. Hydraulic oil change and flush
3. Change Gear Lube in Fairfield Hubs (80-140 w/EP additive)

** 90 - 120w Gear Lube.

TUCKERBILT EQUIPMENT WARRANTY

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH HEREIN WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY TUCKER'S, AND NO WAIVER, ALTERATION, OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND SIGNED BY AN EXECUTIVE OFFICER OF TUCKER'S.

Tucker's guarantees to replace or, at its option, repair any products or parts thereof which are found to be defective in material or workmanship within 3 months from the date of shipment, free of charge, F.O.B. Tucker's plant, provided that the product has been installed in accordance with Tucker's recommendations, and that the product has been operated under normal conditions for the purpose for which it was manufactured. Prompt notification of any defect and proof that the product has been properly installed, maintained, and operated within the limits rated and normal usage is required before Tucker's will agree to replace or repair defective parts.

IN NO EVENT SHALL TUCKER'S BE LIABLE FOR CONSEQUENTIAL DAMAGES, DAMAGES FOR LOSS OF USE, OR SPECIAL DAMAGES, OR FOR TRANSPORTATION, INSTALLATION, ADJUSTMENT OR OTHER EXPENSES WHICH MAY ARISE IN CONNECTION WITH SUCH PRODUCTS OR PARTS.

TUCKERBILT EQUIPMENT WARRANTY (CONT.)

If purchaser is a distributor, Tucker's limited warranty is transferable to the initial user, provided notice of transfer is given by purchaser to Tucker's at the time of such transfer, and provided further that the initial user used the products in accordance with the requirements stated herein.

Neither the warranty nor any other provisions stated herein entitles Purchaser or any third party to damages, direct or consequential, for Personal injury arising from the installation, operation, or use of product furnished hereunder, and purchaser agrees to assist Tucker's and to hold Tucker's harmless in effectuation of this provision.

Machinery, parts, accessories and components manufactured by others are warranted only to the original manufacturer's warranty.

GRC TRACTOR HYDRAULIC FLUID

Bulletin No. 20581
(Supersedes No. 1022751)

DESCRIPTION: This product is a highly developed hydraulic/transmission fluid which performs the following functions:

- Lubricates the transmission, differential and final drive gears.
- Acts as a power steering, power brake, power take-off and implement drive fluid.
- Provides a medium with the correct friction and heat transfer characteristics for proper operation of the tractor wet brakes and power take-off unit.

QUALITIES: The following characteristics make GRC Tractor Hydraulic Fluid an outstanding product for multi-functional application:

- Superior extreme pressure (EP) and antiwear performance protects tractor transmissions, axles and hydraulic pumps.
- The frictional characteristics are designed to minimize "chatter" while permitting the wet brakes to hold properly. This frictional balance also provides smooth engagement of the power take-off clutch.
- A special blend of base helps maintain seals and gaskets used in modern tractors.
- Its balanced formulation provides excellent rust and corrosion protection as well as good oxidation stability for high temperature service.

APPLICATIONS: GRC Tractor Hydraulic Fluid is recommended for most hydraulic fluid and transmission oil applications for tractor and implements, including:

- Allis Chalmers PF
- Allison C-3
- Ford M2C134-A, M2C86-A
- IH Hy-Tran
- J. I. Case JIC-143, JIC-145
- John Deere J-20A, J-12B
- Massey-Ferguson M-1110, M-1127, M-1135
- UHTF
- White Oliver Type 55

PROPERTIES:	Gravity, API (1)	28.0
	Flash Point F Min.	380
	Viscosity, cP at 0 F Max. (2)	4,500
	Viscosity, cSt at 100 C	8.9-9.4
	Viscosity, SUS at 100 F (1)	310
	Viscosity, SUS at 210 F	56-58
	Viscosity Index, Min.	130
	Pour Point, F Max.	–30
	Sulfated Ash, %	1.4-1.7
	Foam Test (3)	Pass
	Pounds per Gallon (1)	7.46

Notes:

(1) Typical value.
(2) ASTM D 2983 (Brookfield)
(3) ASTM 892

MOBILFLUID® 424

HIGH PERFORMANCE TRACTOR HYDRAULIC/TRANS FLUID

Approved against specifications
JOHN DEERE J20C
FORD NEW HOLLAND M2C134D
MASSEY FERGUSON M1135, M1141
ALLISON C–4 (AGRICULTURE APPLICATIONS)
VOLVO BM
WHITE NEW IDEA Q-1802, Q-1826
DENNISON HF-0, HF-1, HF-2
SAUER SUNDSTRAND
KUBOTA UDT
AGCO POWERFLUID 821XL
CATERPILLAR 10-2
CLARK
SUNDSTRAND HYDROSTATIC
ZF TE-ML06

Also recommended for service makeup and refill in Torque converters, power-shift transmissions, final Drives and hydraulics calling for SAE 10W-30 engine oils or mild EP fluids

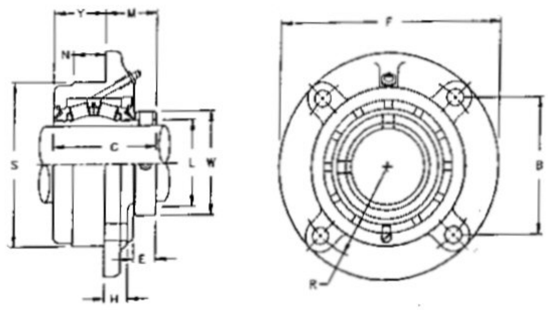
AUGER BEARING

REX BEARING COMPANY



NORMAL DUTY
2000 Series
Single Set Collar
M SEAL

Rex #MBR2207
Tucker's #80305



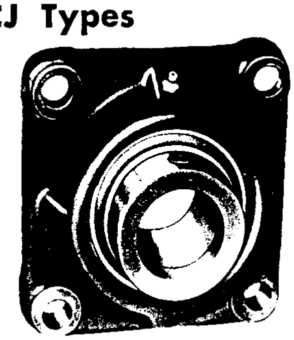
Shaft Size Inches	Complete Block No.	Size Code	B	C	E	F	H	L	M	N	R	S +.000 -.002	W	Y Flange-I.R. End	Bolt Size	Complete Block Net Wt. Lbs.
2-7/16	MBR-2207	8	4-19/32	3-1/2	7/8	7-5/8	5/8	2-29/32	1-13/16	1	3-1/4	5.500	3-9/16	1-11/16	1/2	14.8

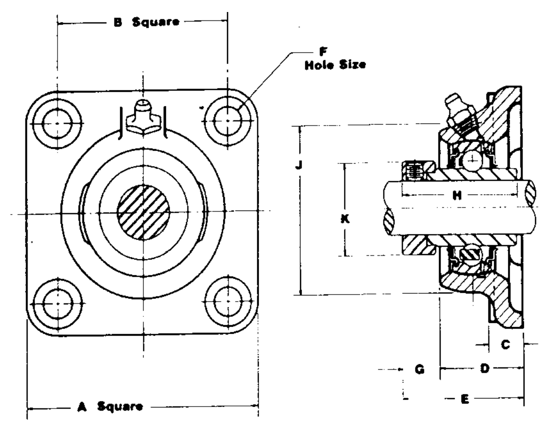
CENTER SWING BEARING

Flange Cartridges — Standard Series
RCJ • LCJ† • TCJ Types

FAFNIR OR EQUAL

Fafnir #RCJ1-3/4
Tucker's #80502

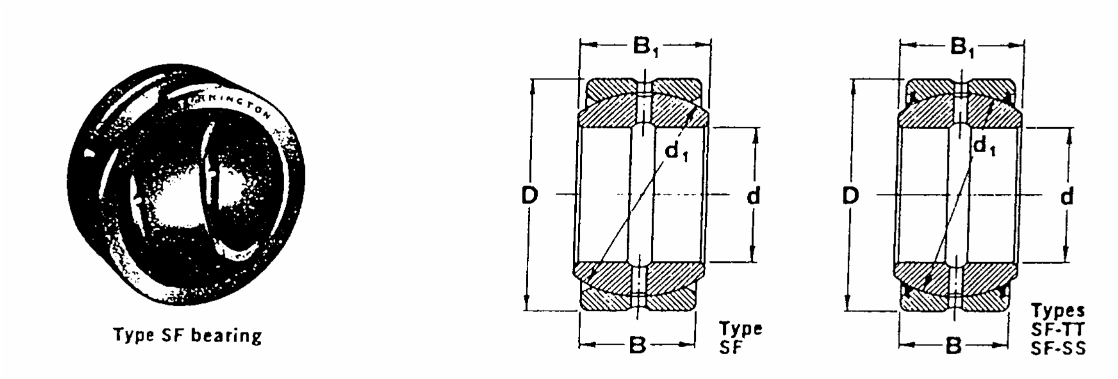




Fafnir flange cartridges are used in applications where a minimum amount of machining is to be done. Each unit is furnished assembled and ready for mounting by means of bolts through the flange. They use a wide inner ring bearing, self-aligning B type, which compensates for shaft misalignment. RCJ type flange units are equipped with G-KRRB (R-Seal) wide inner ring bearings.
LCJ type flange units are equipped with G-KLLB (Mechani-Seal) wide inner ring bearings.
A grease fitting provides means of relubrication where required. A groove on the inside surface of the housing conducts grease to either of two holes in the bearing outer ring.

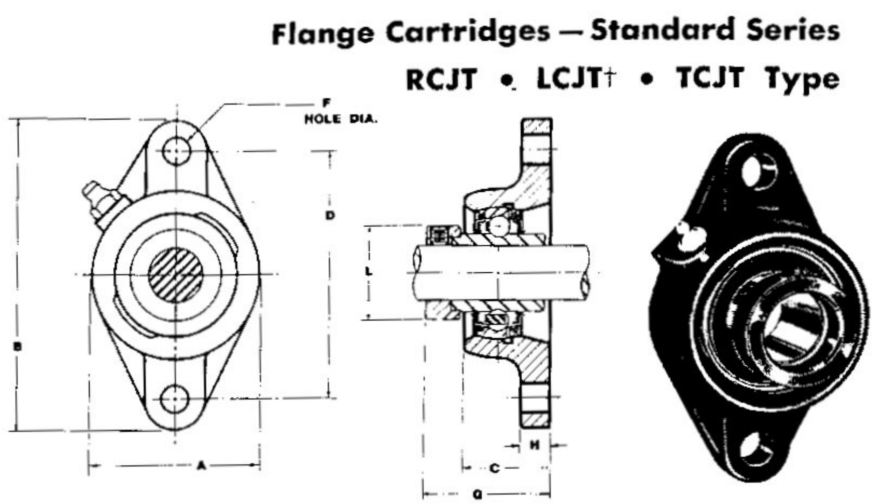
Complete Unit & Shaft Diameter In Inches	A	B	C	D	E	F	G	H	J	K	RCJ	LCJ	TCJ	Collar No.	Housing No.	Approx. Unit Wt. in Lbs.
RCJ,LCJ,TCJ 1-3/4	5-3/8	4-1/8	11/16	1-5/8	2-5/16	33/64	11/16	2-7/32	4-1/8	2-1/2	G1112-KRRB	G1112-KLLB	G1112-KPPB2	S1112K	T-16667	5.70

TORRINGTON BEARING OR EQUAL



d bore (norm.)		D o.d. (norm.)		Bearing designation	B1 inner ring width (norm.)		B outer ring width (norm.)		d1 spherical diameter (ref.)	
mm	inch	mm	inch	type SF	Mm	inch	mm	inch	mm	inch
TORRINGTON #12SF20 **STEERING BEARING** Tucker's #80500										
31.750	1.250	50.800	2.000	12SF20	27.76	1.093	23.80	.937	45.59	1.795
TORRINGTON #20SF32 **HOPPER PIVOT BEARING** Tucker's #80306										
50.800	2.000	80.962	3.1875	20SF32	44.45	1.750	38.10	1.500	73.02	2.875
TORRINGTON #25SF40 **ARTICULATE BEARING** Tucker's #80304										
63.500	2.500	100.012	3.9375	25SF40	55.55	2.187	47.62	1.875	91.19	3.590

LOCK COLLAR SWING BEARING



FAFNIR OR EQUAL

FAFNIR #RCJT 1-3/4
Tucker's #80501

Complete Unit & Shaft Diam. in Inches	A	B	C	D	F	G	H	L	RCJT	LCJT	TCJT	Collar No.	Housing No.	Approx. Unit Wt. in Lbs.
RCJT, LCJT,TCJT, 1-3/4	4-3/8	7-1/16	1-3/4	5-27/32	33/64	2-5/16	9/16	2-1/2	G1112-KRRB	G1112-KLLB	G1112-KPPB4	S1112K	T-21416	5.24

OPTIONAL T-630 AIR DRYER:

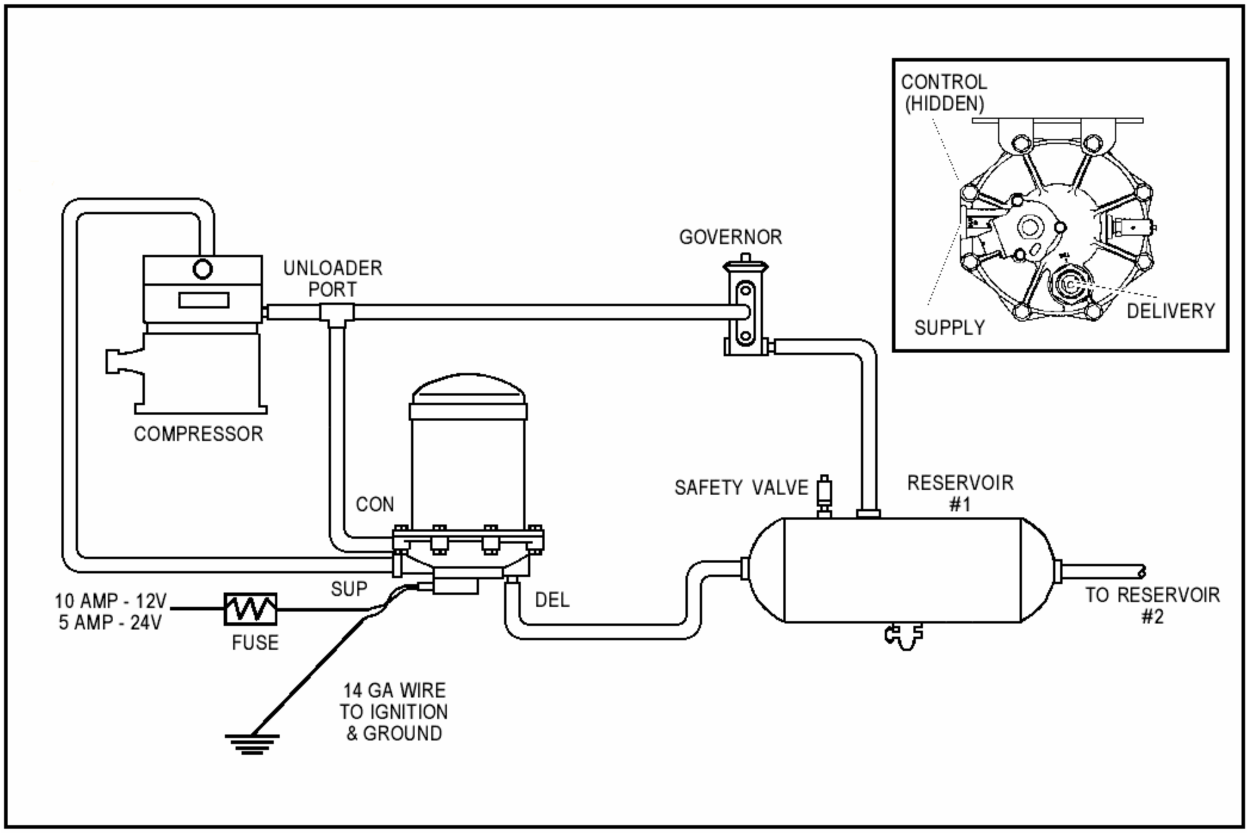


FIGURE 2 - ***AD-9 CHARGE CYCLE***

Bendix AD-9 Air Dryer

Bendix #065225
Tucker's #80619

For all technical information: http://www.bendix.com/downloads/service_data_sheet/Sd082412b.pdf

Mount AD-9 Dryer vertically, outside engine compartment, in area of air flow. Provide 8 inches clearance below air dryer for servicing.

Use at least 6 ft. of discharge line between compression discharge port and air dryer inlet for a multi-cylinder compressor and 10 ft. of line for a single cylinder compressor. Six feet of discharge line and a 90 cubic inch reservoir can be used in lieu of 10 ft. of discharge line for single cylinder compressors. Maximum discharge line length for all compressors is 20 feet. The discharge line should slope downward from the compressor to the air dryer inlet to avoid water traps and to allow drainage to the air dryer. Discharge line material may be either high temperature hose or copper tubing.

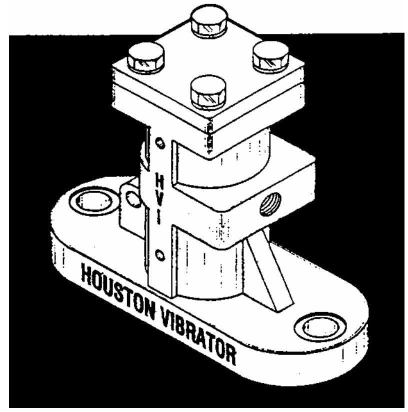
Bendix compressors require a minimum of 4 feet of copper tubing extending from the discharge port with the balance being either high temperature hose or copper.

PNEUMATIC PISTON VIBRATOR

Houston Vibrator, Inc.

HVI MODEL NUMBER	All Dimensions in Inches								
	A	B	C	D	E	F	G	NPT Inlet	WT
BV-225	7-1/4	9	3-1/2	1	7-1/2	1-3/4	5/8	1/4	21

Tucker's #80443



VIBRATOR VALVE

Parker Schrader Bellows
#015210439
Tucker's #80442

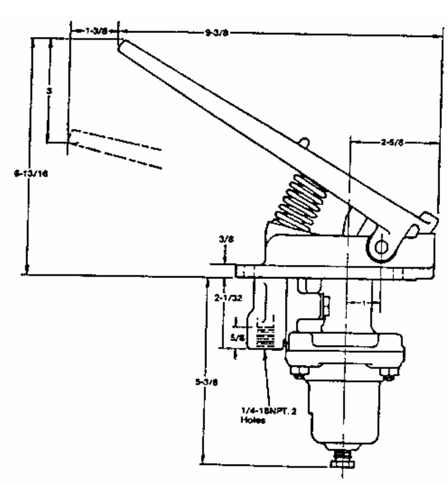


2-way, hand-operated, large capacity, normally–closed poppet valve with rugged brass body. Aluminum handle has large palm surface for easy actuation.

PORT SIZE	FLOW CAPACITY	OLD NUMBER	MODEL NUMBER
3/8	170 SCFM	1521W	01521-0439

ACCELERATOR VALVE

Wabco Controlair Valve



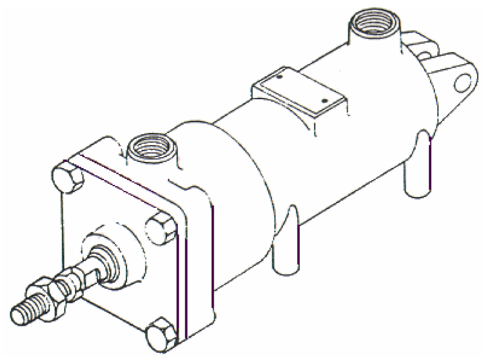
The H-1 CONTROLAIR Valve is a pedal actuated, 3-way pressure regulating valve, suitable for application where the valve portion extends below the floor level. Depressing the pedal increases the outlet pressure. The pedal is self-returning. This valve is suitable for brake and clutch control or any use where foot operation pressure control is desired.

	PSI Range	Piece number
WABCO	0-65	P52570-0001
Tucker's	0-65	80303

REPLACEMENT SEAL KIT:
WABCO #P59028
Tucker's #80303-01

TWO-DIRECTION ACCELERATOR CYLINDER

WABCO ACTUATOR POSITIONER



An extremely versatile type, the Two–Direction positioner moves ½ its total stroke length in each direction from a center "zero" position. It is a compact, economical, accurate linear piston type with three total stroke lengths, 1", 1-1/2", and 2". WABCO's HC-2 Controlair Valves or MC-2 Type "M" Valves with center indexing are natural Partners with the Two-Direction positioner.

ORDERING INFORMATION			
Piece No.	Operating Pressure	Force Rating	Total Stroke Length
P59833-1000	10 - 60	820	2"

Tucker's #80300

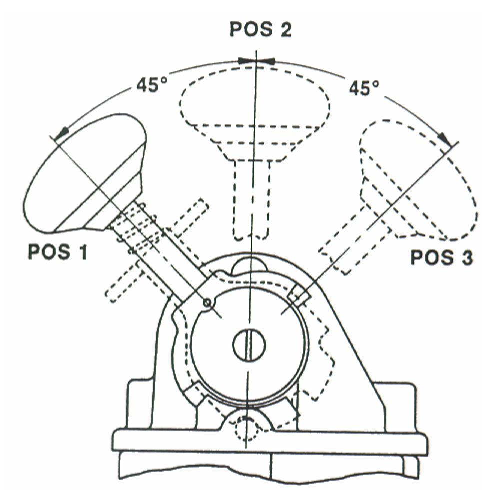
THROTTLE VALVE FORWARD & REVERSE

WABCO Panel-Mounted Valve

4-WAY EXHAUST CENTER VALVES
3-POSITION HANDLE

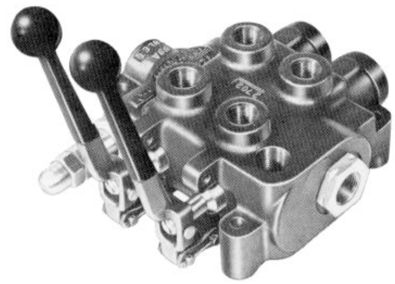
2-HA-2 PILOTAIR VALVE (with detents).
WABCO #P59335
Tucker's #80301

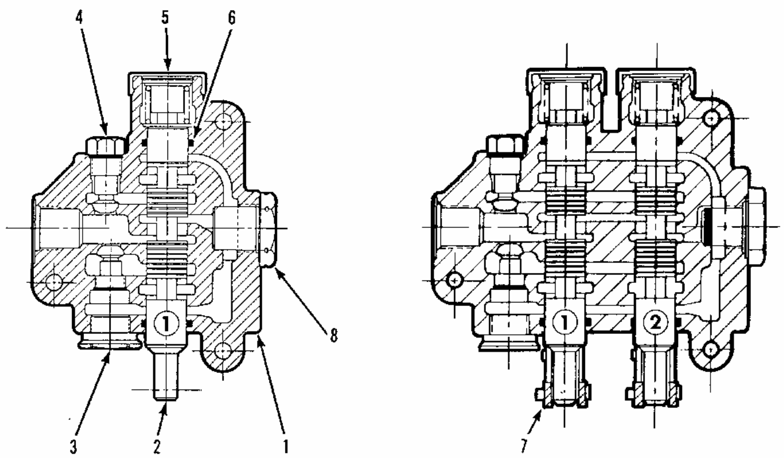
HANDLE POSITION	PORTS SUPPLIED	
	OUT 1	OUT 2
1		X
2		
3	X	



LIFT-SWING VALVE

Gresen #SP-4-4HP
Tucker's #80104





Model SP Spool Directional Controller Valve		
Item No.	**Part No.**	**Description**
1	2701-	HOUSING, SP 1-SPOOL See Note 1
	2702-	HOUSING, SP 2-SPOOL See Note 1
	2703-	HOUSING, SP 3-SPOOL See Note 1
2	904-001	SPOOL, 4-WAY, 3-POSITION See Note 1
	903-001	SPOOL, 3-WAY, 3-POSITION See Note 1
	2805-001	SPOOL, 4-WAY, FREE FLOW See Note 1
	2897-001	SPOOL, METERING See Note 1
3		RELIEF, ADJUSTABLE, J
		RELIEF, HIGH PRESSURE, ADJUSTABLE, J-HP
		RELIEF, NON-ADJUSTABLE, J-NJ
		RELIEF, HIGH PRESSURE, NON-ADJUSTABLE, J-NJ-HP
		RELIEF, DIFFERENTIAL POPPET TYPE, NON-ADJUSTABLE, WS
		RELIEF, DIFFERENTIAL POPPET TYPE, ADJUSTABLE, WSA
		PLUG, NO RELIEF, NR
4	K-2028	LOAD CHECK
5		POSITIONER, SPRING RETURN TO NEUTRAL
		POSITIONER, MANUAL
		POSITIONER, 3-POSITION RETENT (PRIOR TO EARLY 1974)
		POSITIONER, 3-POSITION RETENT (AFTER EARLY 1974)
		POSITIONER, 1-POSITION WITH SPRING RETURN
		POSITIONER, ROTARY RETENT
		POSITIONER, SPRING EXTENDED SPOOL
		LIMITER, SPOOL TRAVEL
6	7691-001	SEAL, STANDARD (2 REQ'D. FOR EACH SPOOL)
	2816-001	SEAL, BUYTL QUAD RING (2 REQ'D. FOR EACH SPOOL)
	2902-001	SEAL, BUNA-N QUAD RING (2 REQ'D. FOR EACH SPOOL)
7	902-001	HANDLE ASSEMBLY, SHORT
	2580-001	HANDLE ASSEMBLY, STANDARD
	3461-001	HANDLE ASSEMBLY, OFFSET TO RIGHT
	3462-001	HANDLE ASSEMBLY, OFFSET TO LEFT
8		PLUG, CLOSED CENTER
		PLUG, CONVERSION
		SLEEVE, POWER BEYOND
NOTE 1: These are matched parts and are not sold separately. A complete valve assembly must be ordered. Refer to Monoblock product catalog No. 10401 for complete details and ordering instructions.		

CYLINDER LOCK

Vicker's #02-160853
Tucker's #80215



HOT OIL SHUTTLE VALVE

Sunstrand #8800485-2400
Tucker's #80202-01



SPEED SELECTOR – TRANSMISSION
WATERMAN HYDRAULICS

Waterman #12C51SM-A12T6
Tucker's #80202

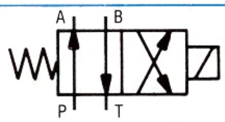
Series 12
Solenoid Cartridge Valves
4-Way Spool • 3 GPM (11 l/min) • 3000 PSI (210 bar)

Features . . .

- ***High flow capacity with reduced space requirements.***
- ***No dynamic seals.***
- ***Standard valve bodies and common cavities.***
- ***One-piece encapsulated coil with minimal amperage draw.***
- ***Oil immersed armature solenoid.***
- ***Numerous coil terminals and voltages.***
- ***Coil interchangeability with all Series 12 valves.***
- ***Manual overrides, seal variations and other options available.***

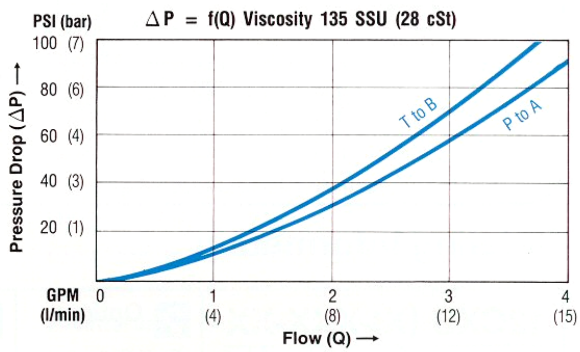


Specifications . . .

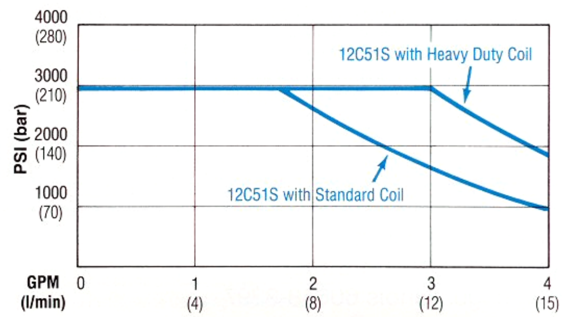
Basic Model Number	12C51SM
Symbol	
Nominal Flow (at ΔP = 70 psi)	3 GPM (11 l/min)
Max. Operating Pressure	3000 PSI (210 bar)*
Response Time (dependent on flow and pressure)	40 to 100 mil-sec
Design	Working parts hardened, ground & honed
Viscosity Range	36 SSU (3cSt) to 3000 SSU (647 cSt)
Filtration	30 micron nominal
Media Operating Temperature Range	+200°F (93.3°C) to −45°F (−42.7°C)
Seals	Buna-N O-rings, teflon back-up washer
Mounting Position	Unrestricted
Weight	10 ounces (.28 kg)
Cavity Form Tool No.	FT12-4 (Cavity Style #12-4).
Options	See ordering info. or consult manufacturer
Electrical Data	See Series 12 Coil Data Sheet.
Valve Body Data	See Series 12 Valve Body Data Sheet.

*For higher pressures, consult manufacturer.

Pressure Drop vs. Flow . . .

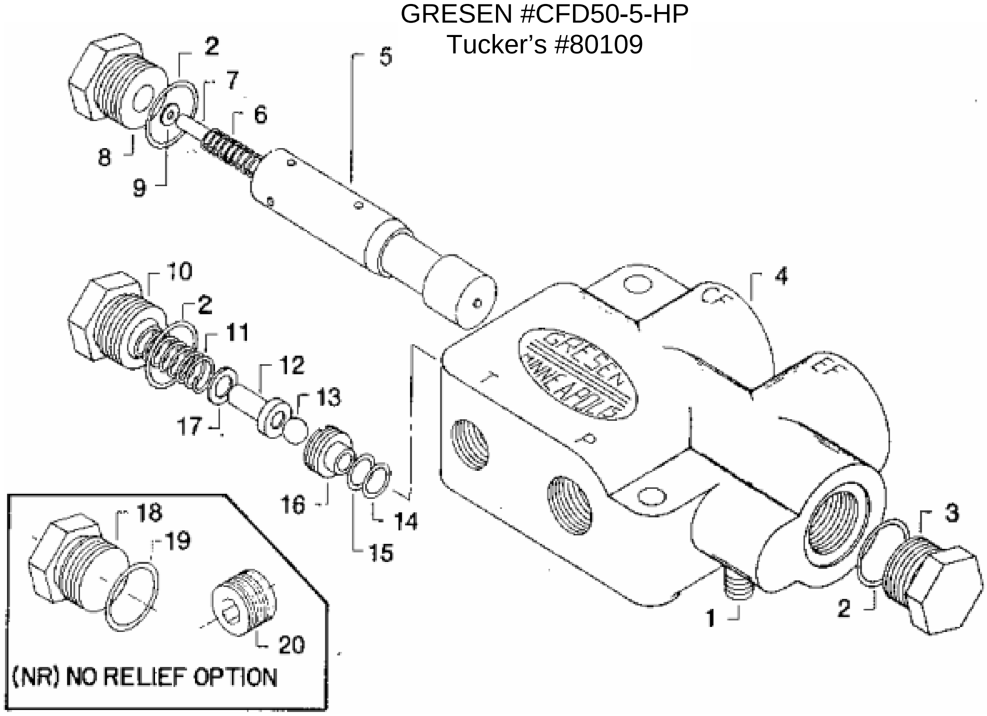


Valve Performance Operating Characteristics . . .



MODEL CFD FLOW DIVIDER

GRESEN #CFD50-5-HP
Tucker's #80109



Parts List			
ITEM	PART NO.	DESCRIPTION	NO. REQ.
1	015-001	Plug	1
2	2707-001	O-ring seal	3
3	1458-001	Spool cap, Solid	1
4	1460-	Housing	1
5		Spool – see options below	1
	1447-001	1.5 GPM	
	1462-001	2.0 GPM	
	1463-001	3.0 GPM	
	1464-001	4.0 GPM	
	1465-001	5.0 GPM Controlled	
	1466-001	6.0 GPM flow Gallonage	
	1467-001	7.0 GPM	
	1468-001	8.0 GPM	
	1469-001	9.0 GPM	
	1470-001	10.0 GPM	
6	1456-001	Spool Spring	1
7	1455-001	Spool Spring Guide	1
8	1459-001	Spool Cap, Hollow	1
9	1448-001	Spool Spring Shim	1
10	1449-001	Relief Cap	1
11	1450-001	Relief Spring (0-1500)	1
	1451-001	Relief Spring (1501-2500PSI)	
12	1452-001	Spring Guide	1
13	2504-001	Relief Ball	1
14	2503-001	O-ring seal	1
15	1453-001	Backup Washer	1
16	1454-001	Relief Seat	1
17	458-001	Shim (.040 thick)	As reqd.
	459-001	Shim (.020 thick)	As reqd.
	462-001	Shim (.010 thick)	As reqd.
		OPTIONAL NR RELIEF	
18	1458-001	Spool cap (Solid)	1
19	2707-001	O-ring Seal	1
20	073-001	3/8" NPT Pipe Plug	1

PORTING KEY

CF = Controlled Flow

EF = Excess Flow

P = Pressurized Oil From Pump

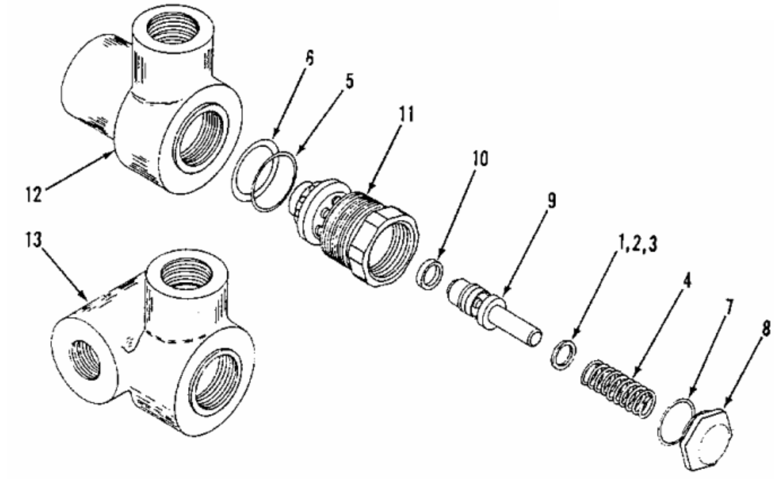
T = Relief Valve Return to Tank (from constant flow side only)

Note: This port plugged on (NR) models.

DIFFERENTIAL-POPPET RELIEF VALVE

Model WJ & WJL Series

Gresen #WJL-75
Tucker's #80211
Set @ 2,000 PSI



INSTRUCTIONS FOR ADJUSTING THE RELIEF SETTING

Remove 1881-001 cap and add shims to increase setting or remove shims to decrease setting. Shims must be placed over stem of 1881-001 relief poppet under spring.

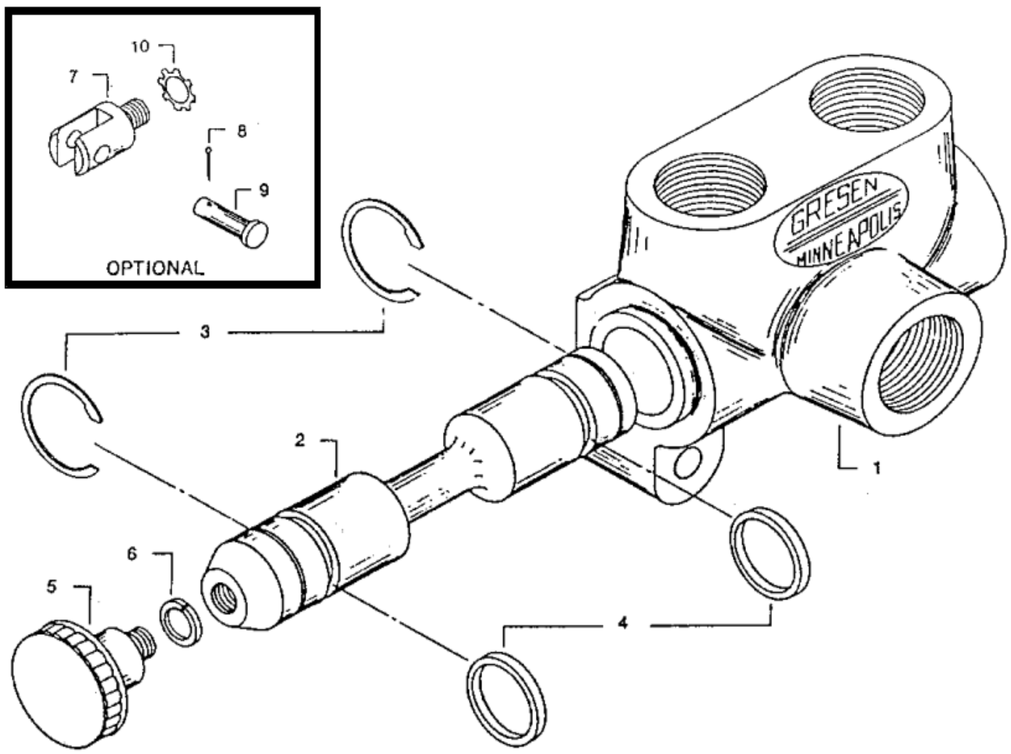
<u>CAUTION: Never attempt to adjust relief pressure without use of a reliable gage in the system.</u>

Parts List

Item No.	Part No.	Description	Quantity
	K-19002	Service kit (Contains Items 10 and 11)	
	K-6006	SEAL KIT (Contains Items 5, 6, and 7)	
1	458-001	SHIMS (.040)	A/R
2	459-001	SHIMS (.020)	A/R
3	462-001	SHIMS (.010)	A/R
4		SPRING, Relief Pressure (Choose one)	1
	1450-001	500-1350 PSI, No Color	1
	1864-001	1351-1750 PSI, Silver	1
	1451-001	1751-2200 PSI, Yellow	1
	1865-001	2201-3000 PSI, Red	1
5	1615-001	SEAL, O-Ring Order K-6006	1
6	1718-001	SEAL, O-Ring Order K-6006	1
7	2707-001	SEAL, O-Ring, Order K-6006	1
8	1880-001	CAP, Relief, without hole lockwire (Standard)	1
	1880-003	CAP, Relief, with hole for lockwire (Optional)	1
9	1881-001	POPPET, Relief Order K-19002	1
10	1883-001	RING, PISTON Order K-19002	1
11	1890-001	BODY, Relief, without hole for lockwire (Standard)	1
	1890-002	BODY, Relief, with hole for lockwire (Optional)	1
12	2716-004	Housing, SAE 10 Ports	A/R
	2716-005	Housing, ½" NPTF Ports	A/R
13	2818-008	Housing, SAE 10 ports	A/R
	2818-006	Housing, ½" NPTF Ports	A/R
14	1234-001	LOCKWIRE and LEAD SEAL (Not shown)	1

AUGER SELECTOR VALVE

Gresen Model S75
Tucker's #80111



Parts List					
			S-50	S-75	S-100
ITEM	No. Req'd	Description	Part No.	Part No.	Part No.
1	1	Valve Housing	*1140-001	*1120-001	*1310-001
2	1	Valve Spool	*1139-001	*1130-001	*1311-001
3	2	Snap Ring	602-001	1127-001	1312-001
4	2	Spool Seal	8021-001	7700-001	8020-001
5	1	Control Knob	081-001	081-001	081-001
6	1	Lock Washer	1291-001	1291-001	1291-001
7	Opt.	Handle Adapter	1478-001	1478-001	1478-001
8	Opt.	Cotter Pin	086-001	086-001	086-001
9	Opt.	Handle Pin	085-001	085-001	085-001
10	Opt.	Lock Washer	603-001	603-001	603-001
Available Kits-Seal Kit contains items 3 and 4			K-13001	K-14001	K-15001
Control Knob Kit contains items 5 and 6			K-13002	K-13002	K-13002
Clevis Adapter contains items 7 and 10			K-13003	K-13003	K-13003
*Not sold as separate items. Spools are factory honed to individual housing and are not interchangeable. Repair service available at factory.					

INSTRUCTIONS FOR REPLACING SEALS
ON MODEL S75 SELECTOR VALVE

IMPORTANT: When installing new seals care must be taken to prevent dirt entering valve or system. Extreme care must also be taken to avoid cutting new seals when installing in valve.

1. **Remove Snap Rings at handle end and rear end of spool.**
2. **Push knob in until rear Seal is exposed. Remove rear Seal.**
3. **Spool may now be removed from valve body. Remove front Seal from spool.**
4. **To prevent cutting Seal on sharp edges, wrap spool in 3 or 4 layers of glossy paper, leaving only the front Seal groove exposed. Install new Seal from rear of spool over the paper and into the Seal groove.**
5. **Apply clean grease to new Seal. Remove paper and insert spool in body and with a rotating action on knob, push in spool until front Seal disappears and until rear Seal groove is exposed.**
6. **Install rear Seal in grove.**
7. **Apply clean grease to rear Seal.**
8. **IMPORTANT – Now install rear Snap Ring and with firm rotating action pull Spool to stop.**
9. **Install front Snap Ring.**

VIBRATOR OILER VALVE

VERSA VALVES

SERIES "B"

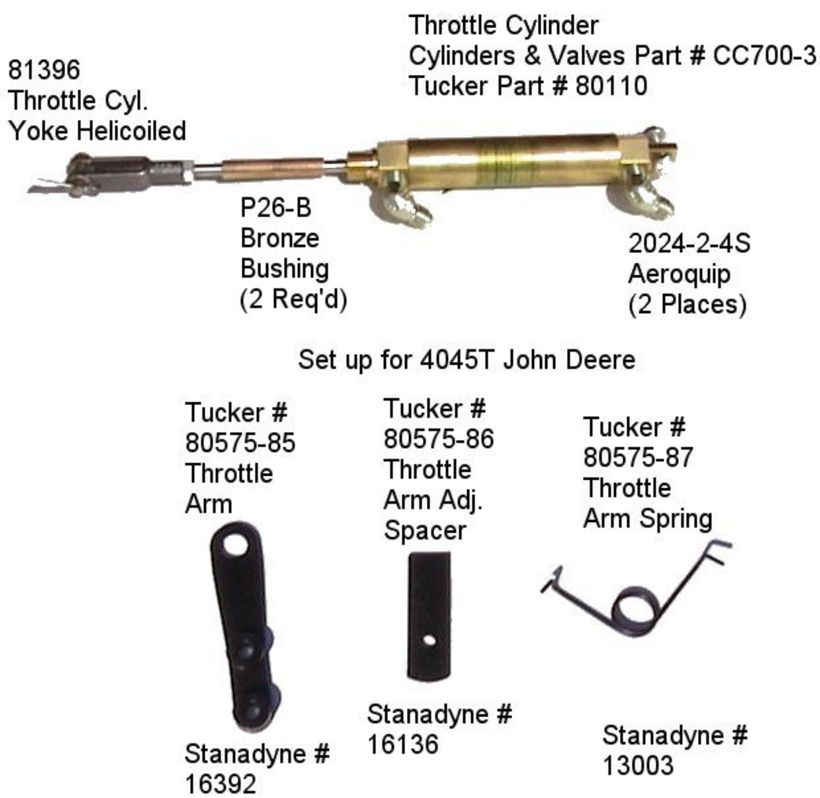


Normally Closed	
Palm Button	For Panel Mtg.
Two-Way	BLK-2208-P25B

Tucker's #80106

THROTTLE CYLINDER

CYLINDERS AND VALVES, INC.

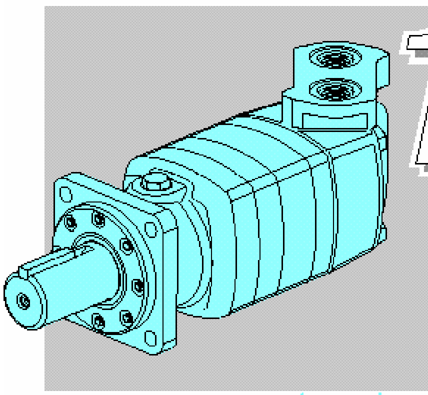


AUGER MOTOR

CHAR-LYNN #119-1030
Tucker's #80102

EATON

10,000 Series



10,000

10,000 Series

Geroler® Element .... 4 Displacements
Flow LPM [GPM] ..... 170 [45] Continuous**
265 [70] Intermittent*
Speed .... Up to 784 RPM
Pressure Bar [PSI] ... 200 [3000] Cont.
270 [4000] Inter.
Torque Nm [lb-in] ... 2700 [23910] Cont.
3440 [30460] Inter.

EACH ORDER MUST INCLUDE THE FOLLOWING:

1. Product Number
2. Data Code
3. Part Name
4. Part Number
5. Quantity Parts

10,000 Series Displacement Size = cubic centimeter per shaft revolution (cm³/r)
= cubic inch per shaft revolution ([in³/r])

- 345 [21.0]
- 480 [29.2]
- 665 [40.6]
- 940 [57.4]

Mounting Flange

- 4 Bolt (Bearingless) 152,4 [6.00] Pilot Dia. and 20,88 [.522] Dia. Mounting Holes 228,6 [9.00] Dia. B.C.
- 4 Bolt (Standard) 127,0 [5.00] Pilot Dia. and 17,02 [.670] Mounting Holes on 161,9 [6.37] Dia. B.C.
- 4 Bolt (Wheel) 177,8 [7.00] Pilot Dia. and 17,02 [.670] Dia. Mounting Holes on 209,5 [8.25] Dia. B.C.

Output Shaft

- Bearingless
- 2-1/4 inch Dia. Straight with Straight Key, 1/2-20 Threaded Hole and 97,5[3.84] Max. Coupling Length
- 2-1/4 inch Dia. Tapered with Straight Key and 1-1/2—18 UNEF Slotted Hex. Nut
- 2-1/8 inch Dia. Splined 16 T with 52,1 [2.05] Min. Full Spline Length and 1/2-20 UNF Threaded Hole

Port Type

- 1-5/16-12 O-ring with 9/16-18 O-ring Case Drain
- 1-1/4 Split Flange with 9/16-18 O-ring Case Drain

Special Features

- Viton Shaft Seal
- Viton Seals
- Two Speed Option
- Corrosion Protected

Type of motor	Type of shaft	Ports	Displacement Cu. In./rev. and Product Number			
			20.6	29.2	40.6	57.4
Standard	Straight	1-5/16 O-ring			119-1030	

** Continuous— (Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent— (Inter.) Intermittent operation, 10% of every minute.

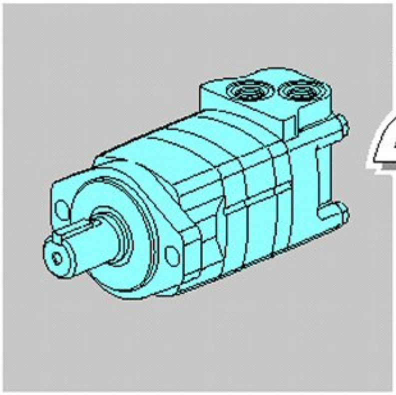
SWING MOTOR

CHAR-LYNN #104-1035
Tucker's #80103

EATON

2000 Series

Type of Motor	Standard w/2 Bolt SAE A Flange
Type of Shaft	1-1/4 14 T Splined
Ports	7/8–14 O-ring
Displacement (cu. In./rev.) & Product Number	18.7



2000

2000 Series

Geroler® Element........ 9 Displacements
Flow LPM [GPM] ..... 75 [20] Continuous**
115 [30] Intermittent*
Speed .... Up to 924 RPM
Pressure Bar [PSI] ... 200 [3000] Cont.
300 [4500] Inter.
Torque Nm [lb-in] .... 845 [7470] Cont.
930 [8225] Inter.

EACH ORDER MUST INCLUDE THE FOLLOWING:
1. Product Number
2. Data Code
3. Part Name
4. Part Number
5. Quantity Parts

2000 Series Displacement Size = cubic centimeter per shaft revolution (cm³/r)
= cubic inch per shaft revolution ([in³/r])

- 80 [4.9]
- 100 [6.2]
- 130 [8.0]
- 160 [9.6]
- 195 [11.9]
- 245 [14.9]
- 305 [18.7]
- 395 [24.0]
- 490 [29.8]

Mounting Flange
- 4 Bolt (Bearingless) 101,6 [4.00] Pilot Dia. and 13,59 [.535] Dia. Mounting Holes on 127,0 [5.00] Dia. B.C.
- 2 Bolt (SAE A) (Standard) 82,5 [3.25] Pilot Dia. and 13,59 [.535] Mounting Holes on 106,4 [4.19] Dia. B.C.
- 4 Bolt (Wheel) 107,9 [4.25] Pilot Dia. and 13,59 [.535] Dia. Mounting Holes on 147,6 [5.81] Dia. B.C.
- 4 Bolt (Standard) 82,5 [3.25] Pilot Dia. and 13,59 [.535] Dia. Mounting Holes on 106,4 [4.19] Dia. B.C.
- 4 Bolt Magneto 82,5 [3.25] Pilot Dia. and 13,59 [.535] Dia. Mounting Holes on 106,4 [4.19] Dia. B.C.
- 2 Bolt (SAE B) 101,6 [4.00] Pilot Dia. and 14,27 [.562] Dia. Mounting Holes on 146,0 [5.75] Dia. B.C.

Output Shaft
- Bearingless
- 1 inch Dia. Straight with Woodruff Key, 1/4-20 Threaded Hole and 38,4 [1.51] Max. Coupling Length
- 1-1/4 inch Dia. Straight with Straight Key, 3/8-16 Threaded Hole and 47,3 [1.86] Max. Coupling Length
- 32 mm Dia. Straight with Straight Key, M8 x 1,25 -6H Threaded Hole and 56,4 [2.22] Max. Coupling Length
- 1-1/4 inch Dia. Splined 14 T, 3/8-16 Threaded Hole and 33,0 [1.30] Min. Full Spline Length and 45,5 [1.79] Max. Coupling Length
- 1-1/4 inch Dia. Tapered with Straight Key and Nut
- SAE 6B Splined 6 T, 1/4-20 Threaded Hole and 22,8 [.90] Min. Full Spline Length and 28,8 [1.13] Max. Coupling Length
- 7/8 inch Dia. Splined 13 T, 15,2 [.60] Min. Full Spline Length and 30,8 [1.21] Max. Coupling Length
- 25 mm Dia. Straight with Straight Key, M8 x 1,25 -6H Threaded Hole and 38,1 [1.50] Max. Coupling Length

Port Type
- 7/8-14 O-ring (Staggered) with 7/16-20 O-ring Case Drain
- G 1/2 (BSP) (Staggered) with G 1/4 (BSP) Case Drain
- Manifold Mount with 3/8-16 UNC Mounting Threads (3) and 7/16-20 O-ring Case Drain
- Manifold Mount with M10 x 1,5 -6H Mounting Threads (3) and G 1/4 (BSP) Case Drain
- 1-1/16—12 O-ring (Positioned 180° Apart) with 7/16-20 O-ring Case Drain
- 7/8-14 O-ring (End Ports) with 7/16-20 O-ring Case Drain (Rear)

Special Features
- Viton® Shaft Seal
- Viton Seals
- Free Running Geroler
- Speed Sensor
- Two Speed Option
- Hot Oil Shuttle
- Corrosion Protected
- Seal Guard Package

** Continuous— (Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent— (Inter.) Intermittent operation, 10% of every minute.

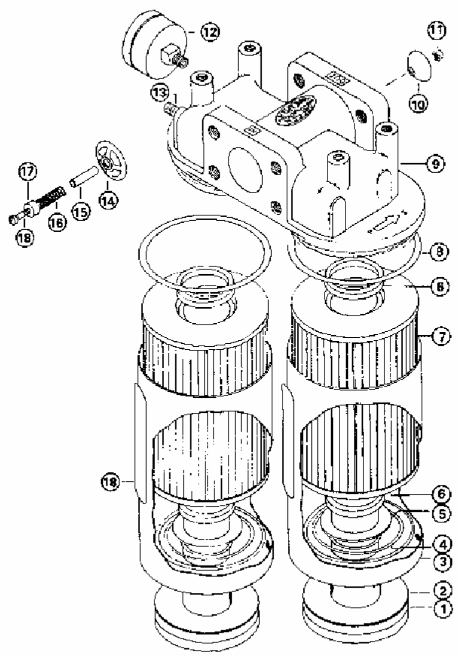
Viton® is a Registered Trade Name of Dupont Corp.

T-630 TANK RETURN FILTER

GRESEN #FLR415-5EDNH
Tucker's #80101

F-400 SERIES "TWIN ELEMENT" FILTER

F401-3AOE GRESEN HYDRAULICS®



INSTALLATION INSTRUCTIONS

1. **When mounting filter on equipment, allow 1" clearance below filter for easy replacement of dirty filter element. For convenience and best results, mount filter in vertical position with Filter Housing "DOWN".**
2. **Be sure to connect filter for oil flow in direction of arrows cast on Filter Head.**
3. **If possible, plumb filter into system so that when the Filter Housing is removed to clean or replace element, oil supply in reservoir will not drain. This can be accomplished by making certain that the lower surface of the Filter Head Casting is above Reservoir Oil Level.**
4. **To change from "Suction-Line" Filtration (line Between Reservoir Tank and Pump Intake) to "Return Line" Filtration (line between Outlet of Control Valve to Reservoir Tank) or vice-versa, see INSTRUCTIONS TO REPLACE BY-PASS SPRING.**

	DESCRIPTION	NO. REQ'D PER ASSEMBLY
	FILTER ELEMENT	
K-23013	3293-001Element, 10 micron paper	2
	COMPLETE SEAL AND ELEMENT KIT	
K-23015	3276-001 Element,10 micron shielded	2

Elements and Seal Kits contain one each of items 2, 8, 7, and two of item 6.

ITEM 2 Flat Gasket 1575-001
ITEM 8 "O" Ring 1576-001

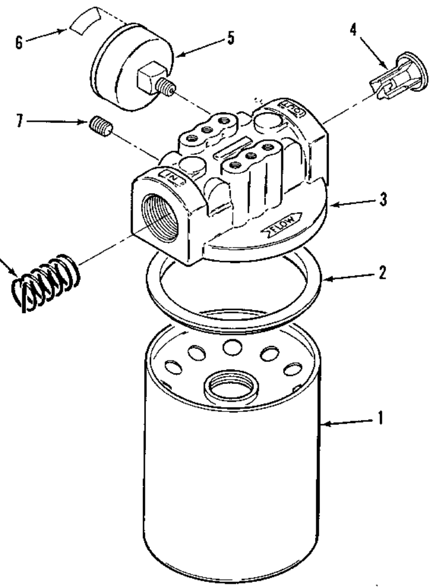
FS250 SERIES
HYDRAULIC SYSTEM FILTER

GRESEN #SP212-1EDNH
Tucker's #80107



INSTALLATION INSTRUCTIONS

1. When mounting Filter, allow 1-1/2" clearance below filter for easy replacement of dirty Filter Element. For convenience and best results, mount Filter in vertical position with Filter Housing "DOWN".
2. Connect Filter for oil to flow in direction of arrow cast on Filter Head.
3. If possible, install Filter so that when the Filter Housing is removed to replace element, oil supply in Reservoir will not drain. This can be accomplished by making certain that the lower surface of the Filter Head Casting is above Reservoir Oil Level.
4. To change from "Suction-Line" Filtration (line between Reservoir Tank and Pump-Intake) to "Return Line" Filtration (line between Control Valve Outlet and Reservoir Tank) or vice-versa.
5. Follow instructions printed on Filter Element can when changing Elements.



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION	QUANTITY REQ'D
1	See Table 1	Filter Element	1
2	7519-001	Filter Element Seal	1
3	7507-XXX	Head Casting, FS250*	1
4	7510-001	Relief Valve Poppet	1
5	K23028	No. 6671-001 Compound Indicator With No. 6673-001 Decal and No.6672-001 30" Vacuum Indicator	1
6	6673-001	Indicator Decal, Red, For Compound Indicators only	1
7	0015-001	1/8" Pipe Plug, optional	1
8	See Table 2	Relief Valve Spring	1

* Filter Head Casting is not available as a spare part. Order complete Filter

TABLE 1 – FILTER ELEMENT		
DESCRIPTION	**PART NUMBER (STAMPED ON ELEMENT)**	**KIT NUMBER * (FOR COMPLETE KIT REPLACEMENT)**
3 Micrometer, Paper	7531-001	K-23020
10 Micrometer, Paper	**7520-001**	**K-23018**
25 Micrometer, Paper	7521-001	K-23019
*** Complete Kit includes 1 Element (Item 1) and 1 Seal (Item 2) shown in the Parts List. Note: Element Kits are packed 12 Elements per case.		

TABLE 2 – RELIEF VALVE ASSEMBLY				
PRESSURE RATING	**APPLICATION**	**SPRING COLOR**	**PART NUMBER**	**KIT NUMBER* (For Complete Kit Replacement)**
3 psi	Suction Line	Blue	7511-001	K-23023
5 psi	Suction Line	Black	7512-001	K-23021
9 psi	Suction Line	Red	7513-001	K-23024
15 psi	Return Line	Silver	7514-001	K-23022
25 psi	Return Line	Steel Gray	7515-001	K-23025
* Complete Kit includes 1 each of Item 4 and 8 shown in Parts List				

INSTRUCTIONS TO REPLACE RELIEF VALVE SPRING

TOOLS REQUIRED

1. Hold Relief Poppet in place with a ½" Allen wrench.
2. Depress Spring, turn counterclockwise. To simplify Spring removal, make a simple Spring Replacement Tool by using electric conduit or tubing as follows:

   a. Cut a section of 1-1/8" O.D., 1" I. D. by 4" long electric conduit or equal.

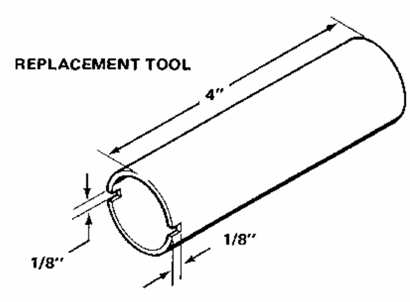
   b. Cut 2 notches 1/8" wide by 1/8" deep. Place Tool notches over Spring, depress and turn counterclockwise

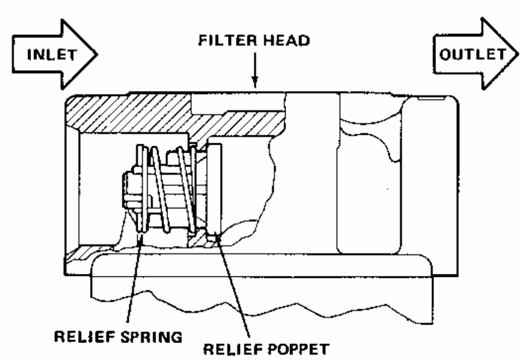
3. Remove Spring and Poppet.

4. Install new Spring.

Note: The 5 PSI Spring is standard for suction line applications. 3 PSI and 9 PSI Springs are optional. The 15 PSI Spring is standard for return line applications. 25 PSI Spring is optional.

Caution: When replacing poppet and spring make sure that poppet is always installed from the outlet side of the filter head and the spring from the inlet side.





CONDITION INDICATOR INSTALLATION INSTRUCTIONS

If filter is installed in "Return-line" (Line from Outlet of Control Valve to reservoir Tank), the indicator must be installed on the "pressure" side of the filter designated by the word "IN" cast in the Filter Head. For "Suction Line" operation (Line between Reservoir Tank & Pump Intake), install the indicator on the "suction" side, designated by the word "OUT" cast in the Filter Head.

INSTRUCTIONS FOR PROPER MARKING OF "DANGER ZONE" ON INDICATOR DIAL FACE.

1. If unit is operated as a "Suction-Line" Filter, indicator dial has danger zone marked on dial starting at 10" Hg(5 PSI Spring) and the Red Decal is not required. To avoid possible damage to your pump, check with the manufacturer to determine the max. safe inlet drop allowed.

   EXAMPLE: When Filter is installed in "Suction Line" ahead of pump, some allowable restriction is created. As dirt or foreign matter is collected in Filter, increase suction is required. This may cause starvation or cavitation of pump prior to the opening of Filter Relief Valve, which is normally set at 10" Hg(5 PSI Spring). Gresen Vane Pumps are designed to withstand a suction of 10" Hg(5 PSI Spring).

2. If unit is operated as a "Return Line" Filter, (with 15 PSI Spring) take pressure reading on Filter Condition Indicator when Filter is clean and with oil at operating temperature. Disregard Indicator reading until oil reached operating temperature. To this figure, add the number from the chart below, which corresponds to your particular installation. The total of these two figures represents the point on the Indicator dial face at which the enclosed Red Decal should be placed when the 15 PSI Spring is installed. This will be the starting point of DANGER ZONE. The Relief Valve begins to open as the needle enters into the RED DANGER ZONE. This indicates that the Filter Element should be changed or cleaned to avoid the possibility of circulating any dirty oil through the system.

3. When installation has been completed, and before starting oil flow in the system, check Indicator to be sure needle is on "0".

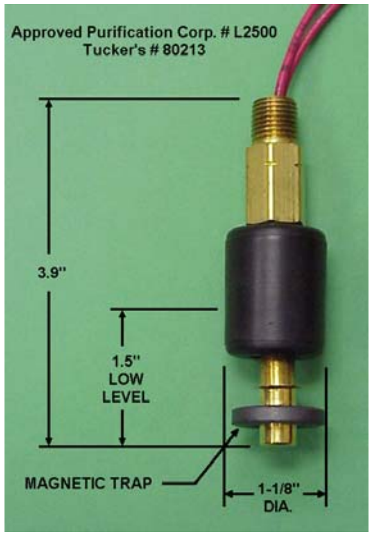
RETURN-LINE INDICATOR CALIBRATION CHART (150 SUS OIL and FILTER ELEMENT)			
PUMP OUTLET (GPM)	MODEL FS250 FILTER		
	PAPER ELEMENT 3 MICROMETER	PAPER ELEMENT 10 MICROMETER	PAPER ELEMENT 25 MICROMETER
0 - 20	**10**	**13**	**14**
21 - 30	**6**	**11**	**12**
31 - 40	**2**	**9**	**9**
41 - 50	**-**	**5**	**7**
51 - 60	**-**	**-**	**5**

GRESEN®

Parker

HYDRAULIC OIL LEVEL SENSOR

APPROVED PURIFICATION CORP.



Approved Purification Corp. #L2500
Tucker's #80213

IN-TANK STRAINER

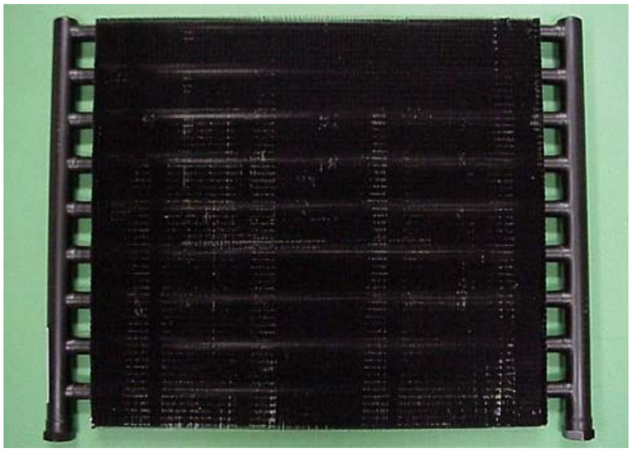
HYDRAULIC SUPPLY COMPANY

Hydraulic Supply Co. #SU65SF32
Tucker's #80100



ORDERING INFORMATION												
TYPE OF ELEMENT		ELEMENT AREA			NORMAL MICRON RETENTION		MAGNET		THREAD (N.P.T.)		STANDARD LINE SIZE (in inches)	
S	**U**	Cm2	In2	**6**		**5**		**S**		**F**		**32**
One Pc.	U	2903	450	6	150 (100 mesh)	5	No Magnet	S	Female	F	2	32

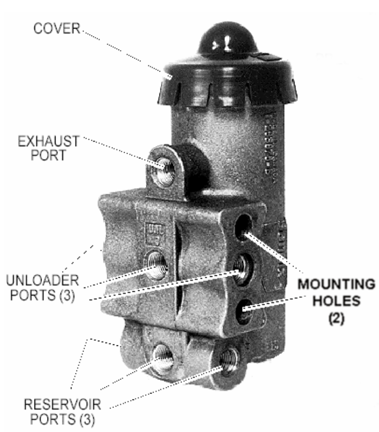
HEAT EXCHANGER (OIL COOLER)
Thermal Dynamics #DHR2491130
Tucker's #80207-1



RUBBER MOUNTS FOR HEAT EXCHANGER
Thermal Dynamics #L84740
Tucker's #80207-02

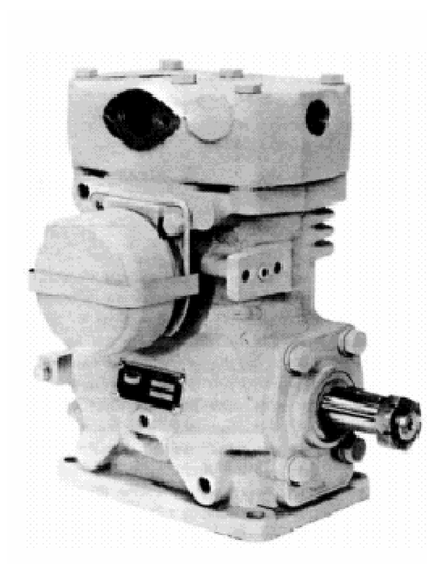


BENDIX D-2 GOVERNOR
Bendix #BW275491
Tucker's #80609



Available Remanufactured Exchange
Maintenance Kit with High Temperature O-Rings PC. No. 280915
Maintenance Kit with Standard O-Rings 276121

AIR COMPRESSOR
Bendix #108261
Tucker's #80609-01
12 CFM at 1250 RPM



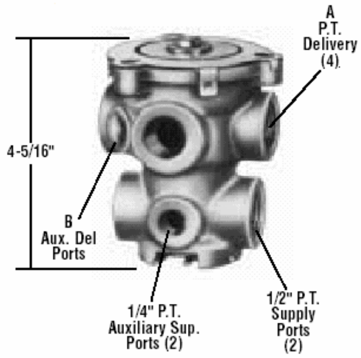
Bendix Air Valves

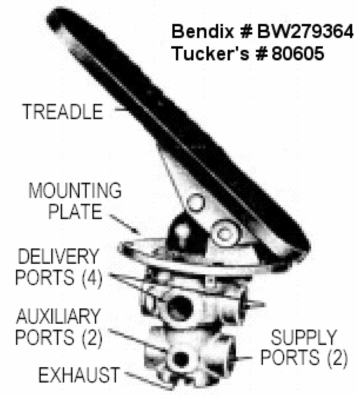
E-3 Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kits
  Pc. No. 276119 Minor Repair
  Pc. No. 289329 Major Repair

Treadle and Mounting Plate Not Furnished. If Required Refer To Master Parts Catalog.

Basic E-3 Pc. No.	A Pipe Thread (Delivery)	B Auxi-liary Ports
277863	1/2"	NONE
278998	1/2"	2-1/4"

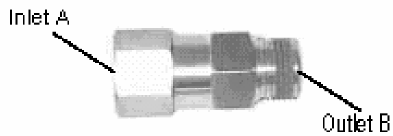




Single Check Valve

Bendix # BW800372

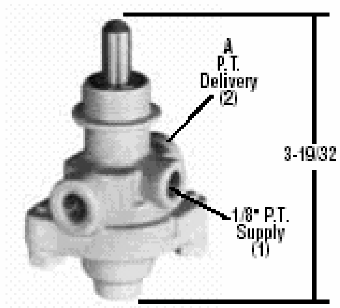
Tucker's # 80612



PP-1 Control Valve

- Available Remanufactured Exchange
- Maintenance Kit 281126
- Button and Mtg. Nut not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

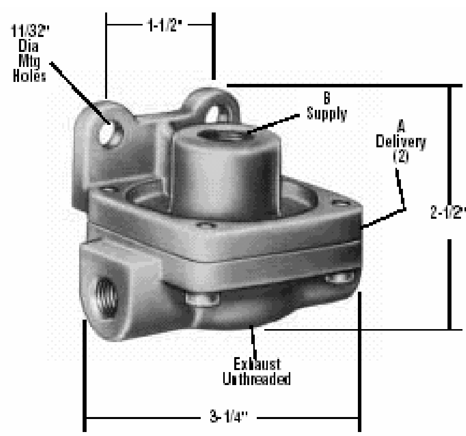
Bendix # BW275176
Tucker's # 80600



QR-1 Quick Release Valve

- Available Remanufactured Exchange

Bendix # BW229813
Tucker's # 80611



AIR HORN

Tucker's #80608 Air Horn Kit (includes
valve, horn, tubing, & fittings



Grover Products
Grover #1601Dual Connected Truktone Horn
Tucker's #80608-2 Air Horn

Bendix Horn Valve Model HV-3
Tucker's #80608-1 Horn Valve

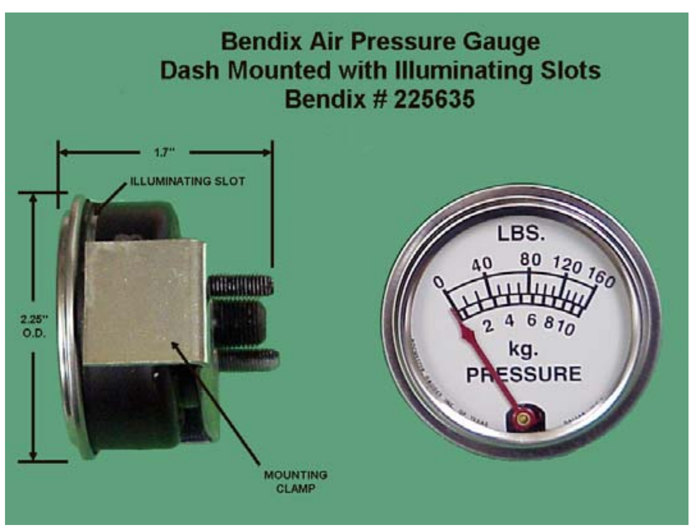
AIR BRAKE AIR RESERVOIR

Tucker's #80610



AIR PRESSURE GAUGE

Bendix #225635
Tucker's #80607

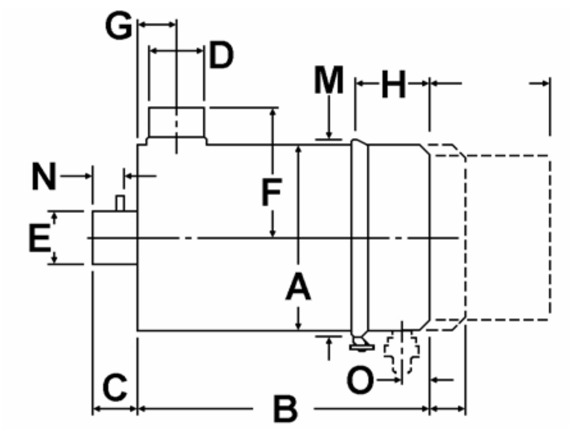


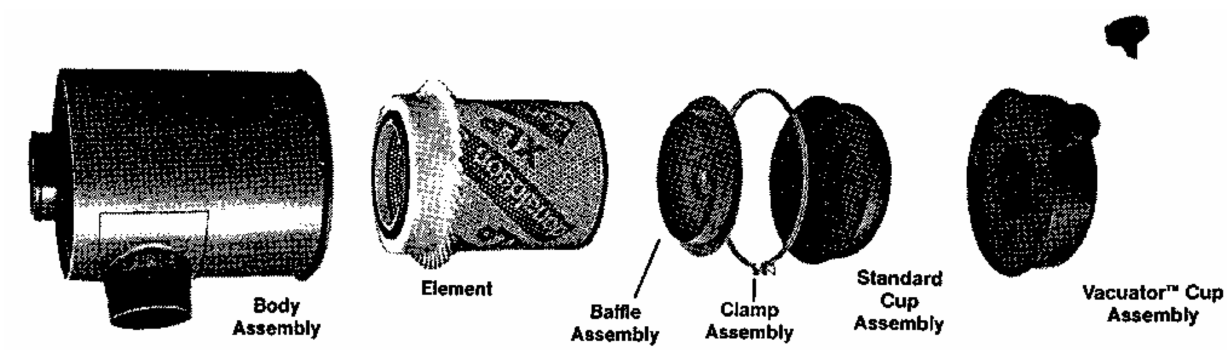
ENGINE AIR FILTER ASSEMBLY

Donaldson Company, Inc.

Donaldson #G100004
Tucker's #81705

Air Cleaner Model	Vacuator Air Cleaner Model	CFM Operating Range Initial Restriction (H_2O)			Dimensions (in inches)													
		6"	8"	10"	A	B	C	D	E	F	G	H	K	L	M	N	O	Approx. Wt. Lbs.
FWG10-003	FWG10-004	296	343	386	10.19	16.22	1.75	4	4	7.5	2.69	4	7.16	1.25	11.06		2.12	17





Air Cleaner Model	SMP	Gasket Washer	Thumb Screw	Clamp Assy.	Baffle Assy.	Cup Assy.	Cup Gasket	Vacuator Cup Assy.
FWG10-003	P18-1045	P01-8462	P01-6984	P10-6071	P10-3135	P10-3519	P10-1401	P10-3827

RESTRICTION MEASUREMENT

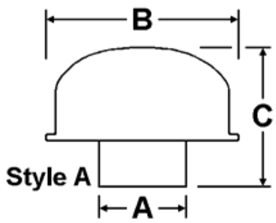
Tucker's #80575-16

ServiSignal Mini Indicator

Only 1.66" high, the Donaldson ServiSignal is factory set to show when air cleaner service is required. Top reset button. Compact low cost design. Full view windows.

Complete Kit	Indicator Only	Limits
RAXOO-2353	RBXOO-2252	25" H2O



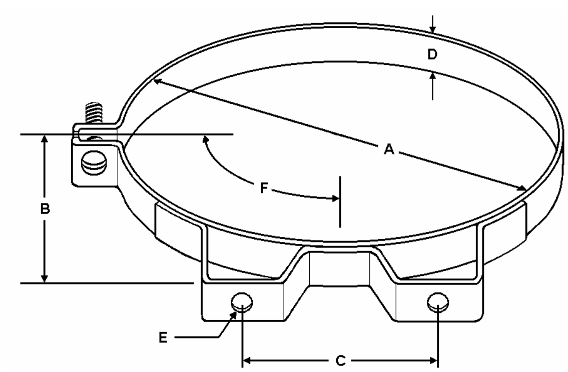


AIR INLET HOOD

Donaldson #GAXOO-2015
Tucker's #80575-22

Dimensions in Inches

A Fits Tube OD	B Hood Dia.	C Hgt.	Approx. Hgt. Added To Stack	Style	Bonnet Material	Rain Shroud	Wt. Lbs.	Part No.
4	8.06	7.88	6	A	Metal	No	2.0	GAXOO-2015



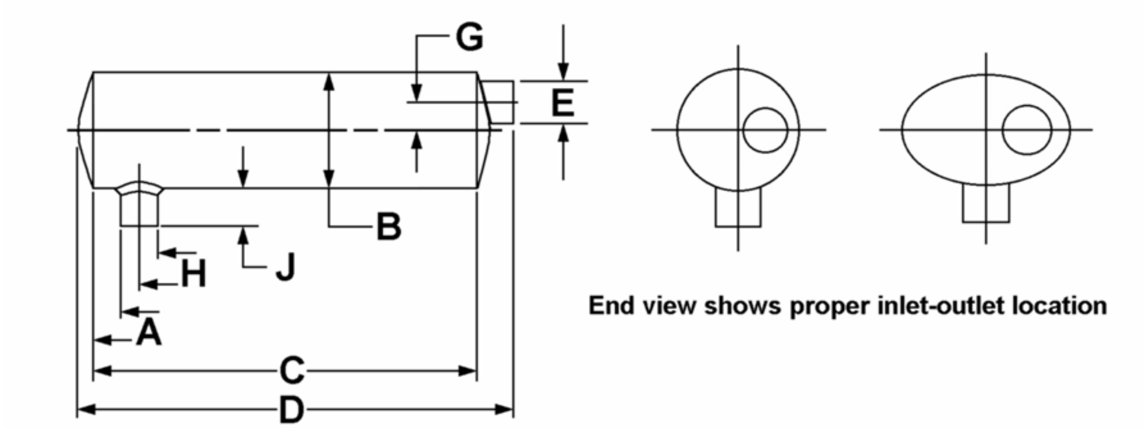
AIR CLEANER MOUNTING BAND

Donaldson #P10-4076
Tucker's #80575-26

Part No.	Dimensions in Inches						Wt. Lbs	Max. Bolt Torque Ft.Lb.
	A	B	C	D	E	F		
P1O-4076	10.19	5.75	5	1.25	.45	90	1.5	4.0

EXHAUST MUFFLER

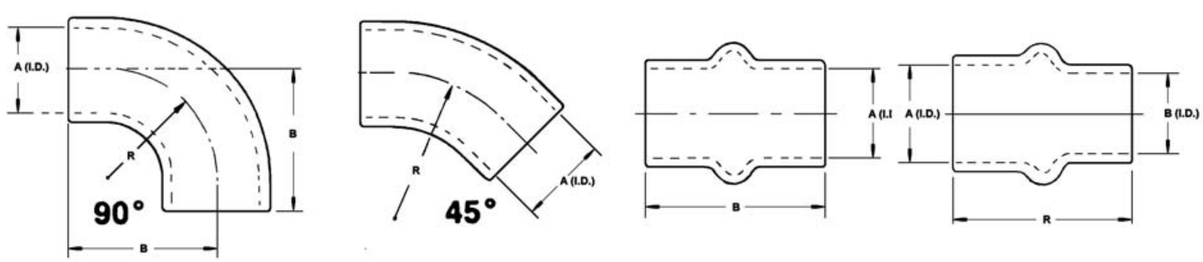
Tucker's #81706



Dimensions in Inches

DONALDSON Muffler Model	A ID Inlet	B Body Dia.	C Body Length	D Overall Length	E ID Outlet	G Outlet Offset	H Tube Location	J Tube Length	Approx. Wt. Lbs
MAM08-5090	3	8.5	27	29.5	3	2	3.5	2.5	22

EXHAUST PIPE



Dimensions in Inches

90 Deg. Elbow			
Dimensions			Donaldson Part No.
A	B	R	
3	5	3.25	P10-5532
4	5.75	4.13	P10-5533
Tucker's # 3. 80575-46 4. 80575-25			

45 Deg. Elbow		
Dimensions		Donaldson Part No.
A	R	
3	3.25	P10-5544
Tucker's #80575-45		

Straight Hump		
Dimensions		Donaldson Part No.
A	B	
4	5.25	P10-5609
Tucker's #80575-29		

Hump Reducer			
Dimensions			Donaldson Part No.
A	B	R	
4	3	5	P10-1291
Tucker's #80575-47			

REYCO INDUSTRIES INC.

P. O. BOX 2268 - SPRINGFIELD, MO. 65801-2268
TELEPHONE 417 – 862-4343 - TELEX: 436424 REYCO SPG. - FAX 417 – 862-0343

102 TRACTOR SUSPENSION

MAINTENANCE RECOMMENDATIONS

The 102 Tractor Suspension, by design, requires a minimal amount of Maintenance. However, suspensions in over–the–road operations require periodic checks to assure continued trouble free performance.

Our recommended 180 day inspection procedure is to :

1. Check ¾" u-bolt nuts to assure maintenance of 300 ft. lbs. torque.

2. Check all hanger mounting bolts to assure tight fit of hanger to frame. For specific torque recommendations, consult the vehicle service manual or manufacturer.

3. Check equalizer nut (equalizer bolt) to assure that 600 ft. lbs. torque is maintained.

4. Check torque arm bolts to assure that 160-200 ft. lbs. Torque is maintained.

5. Check ¾" torque arm clamp nuts to assure that 125-150 ft. lbs. torque is maintained. Insure the clamp is directed away from the spring to prevent possible interference during operation.

6. Check fit of springs to hangers and equalizer to assure continued good "ride" characteristics of Reyco suspension.

We recommend, during pre-delivery and after the first 1,000 miles of operation, that all of the above items be checked, including a check of the suspension alignment.

In addition to checking alignment during pre-delivery and at the first 1,000 miles of operation, suspension alignment should be checked when any one of the following conditions prevail:

1. Discovery of a loose suspension fastener. (Loose is defined as any torque below the recommended torque).

2. Discovery of elongated holes in a suspension component.

3. When bushings are being replaced.

4. Excessive or abnormal tire wear.

To insure an accurate torque reading, the torque tool used for checking torque must provide a correct measurement. Also, the nut and bolt should be dry (free of any lubrication) and clean (free of any dirt, grit, rust, etc.).

DEERE POWER SYSTEMS GROUP

Product Support Bulletin

Date: 21 Nov. 96

FUNCTIONAL GROUP CODE: 0418

APPLIES TO: ALL “OEM” AND REPOWER ENGINES

SUBJECT: COOLING SYSTEMS MAINTENANCE

DTAC SOLUTION: K1147

Complaint or Symptom:

1. Liner pitting
2. Loss of coolant
3. Coolant in the lube system

Problem:

1. Underconcentration of Supplemental Coolant Additives (SCAs)
2. Use of automotive coolant not recommended for heavy – duty engines (diesel, natural gas, and compressed natural gas).
3. Incorrect mix of coolant, water and/or SCAs.
4. Poor quality water.

Solution:

A 50/50 mix of heavy-duty antifreeze and clean, quality (distilled, de-mineralized or de-ionized) water with Supplemental Coolant Additives (SCAs) is required for all heavy-duty engines. Water (without antifreeze/coolant) with 6% SCA additive is no longer recommended and is not an acceptable coolant solution.

Use heavy-duty antifreeze/coolant which meets ASTM standard D4985 such as John Deere TY16034 Diesel Engine Anti-Freeze/Summer Coolant (concentrate) or John Deere TY16036 Diesel Engine Anti-Freeze/Summer Coolant (pre-diluted with pristine, de-mineralized water) or an equivalent. Antifreeze/coolant with an ethylene glycol base or a propylene glycol base is acceptable.

SCAs, such as John Deere Liquid Coolant Conditioner TY16044, must be added to non-fully formulated coolant to protect the engine from liner pitting, mineral scale deposits, rust and corrosion. The correct ratio is 3% of total system capacity. Do not mix one brand of SCA with a different brand.

Overcharging with SCAs can result in water pump seal leaks, gelling, plugged radiators and solder blooms. Automotive type coolant typically has higher levels of silicates which contribute to the same problems as overcharging.

SCA level may be checked with TY16175 3-Way Heavy Duty Coolant Test Kit to determine concentration levels. It should also be checked after coolant loss to determine SCA make-up requirements. Carefully follow directions supplied with the test kit to ensure accurate readings and SCA requirements. DS0251 Coolscan Kits are available to send samples to a lab for more in-depth analysis.

Both John Deere Anti-Freeze/Summer Coolant TY16034 and TY16036 are pre-formulated with SCAs and **do not require** pre-charging. Most other brands of heavy-duty antifreeze/coolant are not pre-charged and **do require** pre-charging with SCAs. If unsure, check with the test kit or consult your coolant supplier. If pre-charging is required, determine the total system capacity and premix with 3% John Deere Coolant Conditioner TY16004 or an equivalent.

If TY160336 is not used, water meeting the following quality specifications must be used:

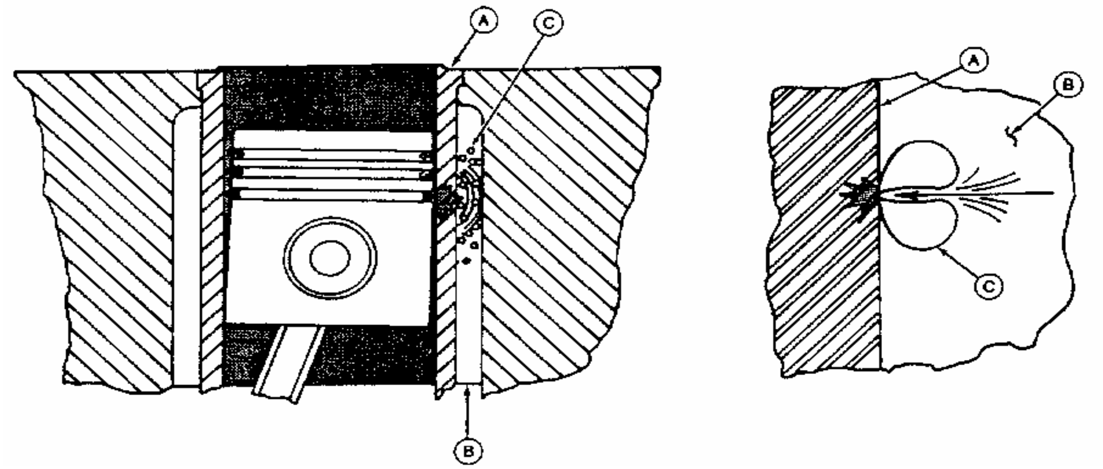
Calcium Magnesium (Hardness)	170 PPM Maximum
Chlorides	40 PPM Maximum
Sulfates	100 PPM Maximum
Total Dissolved Solids	340 PPM
pH Level	5.0-9.0

If Chlorides, Sulfates, or Total Dissolved Solids are higher than the above-given specifications, the water must distilled, de-mineralized or de-ionized before using in the cooling system.

If Total Hardness is higher than the above-given specifications, and all other parameters are within the given specifications, the water must be softened before using in the cooling system.

SCAs become depleted during normal operation and must be replaced at maintenance intervals by adding John Deere Liquid Coolant Conditioner TY16004 (16 oz.) or TY16005 (half gallon), or an equivalent. Follow directions on product label to determine the volume of SCAs to be added. If a coolant loss occurs, replacement coolant must be premixed with the same ratio of SCAs as the initial fill.

Liner pitting is caused by vapor bubbles forming and imploding on the exterior surface of the liner. Energy generated by the combustion process and side-to-side piston motion cause the liner to vibrate at a very high frequency creating the vapor bubbles. The vapor bubbles then explode against the liner surface at pressures exceeding 1034 Bar (15,000 psi). This process continually repeats itself resulting in liner pitting which will eventually pit all the way through the cylinder liner wall.



A-Cylinder liner Walls B-Engine Coolant C-Vapor Bubbles

Vapor Bubbles and Pitting

Liner pitting is easier controlled with heavy-duty coolant containing SCAs, which provide a surface film that protect the liner from pitting.

Change interval is 3 years or 3000 hours in all applications when using John Deere TY16036 pre-diluted Diesel Engine Anti-Freeze/Summer Coolant, fully formulated with coolant conditioner, anti-corrosion additives and anti-foaming agents to guard against liner pitting, rust, corrosion, and scaling. Follow the Engine Operation and Maintenance Manual to determine maintenance frequency.

Additional Information:

Use a refractometer to accurately measure the freeze point. Hydrometers with floating balls can give inaccurate readings. Propylene glycol requires higher antifreeze/water concentration than ethylene glycol for equivalent freeze protection.

% Concentration	Ethylene Glycol	Propylene Glycol
40	-24Deg. C (-12Deg. F)	-20Deg. C (-4Deg. F)
50	-37Deg. C (-34Deg. F)	-32Deg. C (-26Deg. F)
60 (do not exceed)	-52Deg. C (-62Deg. F)	-48Deg. C (-54Deg. F)

Note: Cylinder liner pitting is not a warrantable failure.
For further information, see Deere Power Systems Group Product Support Bulletin dated 22 November 1996, Subject: "Warranty - Engine Cylinder Liner Cavitation.

DEERE POWER SYSTEMS GROUP

Product Support Bulletin

JOHN DEERE

Date: 22 NOV 96

FUNCTIONAL GROUP CODE: 0400

APPLIES TO: ALL "OEM" AND REPOWER ENGINES

SUBJECT: WARRANTY - ENGINE CYLINDER LINER CAVITATION

DTAC SOLUTION: K1148

Engine cylinder liner cavitation ("pitting") is normally prevented by proper cooling system maintenance as outlined in the Operation and Maintenance Manual provided with the engine. Stated another way, inadequate maintenance of the cooling system usually leads to liner cavitation.

Therefore, cylinder liner cavitation is not the result of a defect in material or workmanship and is not considered to be a warrantable failure.

When a customer requests warranty service based on possible liner cavitation symptoms (e.g. "water in the oil"), the first step must always be to test the quality of the coolant in the engine's cooling system. This is easily and economically accomplished using the John Deere 3-Way Heavy Duty Coolant Test Kit.*

Testing procedures must be adhered to very carefully in order to eliminate errors of interpretation. In reading test results, any reading outside the "recommended range" (shaded area of the test kit chart) indicates that the coolant does not meet SCA content specification.

When testing shows coolant quality to be inadequate, the customer must be informed of the results and told that if liner cavitation is found upon engine tear down, the repair will not be claimable under the warranty.

Dealers encountering difficulty in this should consult Engine DTAC (1-800-535-1979) <u>before</u> any disassembly of the engine is undertaken.

For further information, see Deere Power System Group Product Support Bulletin dated 21 November 1996, Subject: "Coolant System Maintenance".

*Note: 3-Way Heavy Duty Coolant Test Kit is available in the parts system under number TY16175 (includes four test strips).

T-630 Hose Contents

Aeroquip Part Numbers

Part #	Qty	Hose Placement	Contents	
			Qty	Part #
81902	1	Throttle Valve to Front Cylinder Port	2	1AA4FJ4
			308"	GH781-4
81903	2	F-R Valve to F-R Cylinder	2	1AA4FJ4
			278"	GH781-4
81904	1	Park Brake Valve to Spring Brakes	2	1AA4FJ4
			421"	GH781-4
81905	1	Foot Brake Valve to Service Brakes	2	1AA4FJ4
			344"	GH781-4
81906	2	Lift Cylinder Crossover Line (Front to Rear & Rear to Front)	1	1AA8FR8
			1	1AA8FRB8
			16.5"	GH781-8
81908	1	Engine Fuel Filter to Fuel Tank	2	1AA6FJ6
			187"	GH781-6
81910	2	Lift Valve to Safety Valve (Top to Front & Bottom to Rear)	1	1AA8FR8
			1	1AA8FRB8
			52.5"	GH781-8
81911	2	Steering Cylinder Crossover Lines	1	1AA8FR8
			1	1AA8FRB8
			48.5"	GH781-8
81912	1	Steering Valve (right port) to Rear of Left Steering Cylinder	1	1AA8FR8
			1	1AA8FRA8
			281"	GH781-8
81913	1	Steering Valve (left port) to Rear of Right Steering Cylinder	1	1AA8FR8
			1	1AA8FRA8
			277"	GH781-8
81914	1	Air Tank to Brake Valve	2	1AA8FJ8
			290"	GH781-8
81915	1	Flow Divider to Lift Swing Valve Inlet	2	1AA8FR8
			24.5"	GH781-8
81916	1	Steering Relief Valve to Tank	1	1AA8FR8
			1	1AA8MP8
			24.5"	GH781-8

T630 Hose Contents

Part #	Qty	Hose Placement	Contents	
			Qty	Part #
81917	2	Swing Valve Left Ports to Cushion Valve (Top to Bottom & Bottom to Top)	1	1AA8FR8
			1	1AA8MP8
			66.5"	GH781-8
81918	1	Top R.H. Sunstrand Motor to Top Front L.H. Sunstrand Motor	2	1AA12FR12
			55"	GH781-12
81919	1	Wheel Motor Drain to Pump Drain Tee	1	1AA12FR12
			1	1AA12FRB12
			17"	GH781-12
81920	1	Left Side of Oil Cooler to Tank	2	1AA12FJ12
			81"	GH781-12
81921	2	Bottom of Safety Valve to Bottom of Lift Cylinder	1	1AA8FR8
			1	1AA8FRB8
			24"	GH781-8
81922	1	Bottom of Drain Port on Sunstrand Pump to Right Side of Oil Cooler	1	1AA12FR12
			1	1AA12FRA12
			52"	GH781-12
81923	1	Steering Valve to Vickers Pump	2	1AA16FR16
			254"	GH781-16
81924	1	Steering Valve Return to Lift & Swing Valve Return Tee	1	1AA12FR12
			1	1AA12FRB12
			55"	GH781-12
81925	1	Steering Valve Power Beyond Port to Flow Divider	2	1AA12FR12
			68"	GH781-12
81926	1	Lift-Swing Return Tee to Auger Return Tee	1	1AA12FR12
			1	1AA12FRB12
			16"	GH781-12
81927	1	(19 3/4") Right Wheel Motor (rear port) to Right Side Sunstrand Pump, Center Port	2	1BA12FR12
			66.5"	FC136-12
81928	1	Right Wheel Motor (front port) to Left side Sunstrand Pump Top of Tee	1	1BA12FR12
			1	1BA12FRC12
			33"	FC136-12

T-630 Hose Contents

Part #	Qty	Hose Placement	Contents	
			Qty	Part #
81929	1	Left Wheel Motor (rear port) to Right Side Top Port Sunstrand Pump	1	BA12FR12
			1	BA12FRC12
			31”	FC136-12
81930	1	(65 ½”) Left Wheel Motor (front port) to Left Port Sunstrand Pump bottom Tee – Center Port	2	1BA12FR12
			66.5”	FC136-12
81931	1	Vickers Pressure Right Side Outside Adapter Line to Auger Valve	2	1AA16FR16
			219”	GH781-16
81932	2	Auger Valve to Auger Motor (Lines to Cross)	2	1AA16FR16
			93.5”	GH781-16
81933	1	Auger Valve Return Line	2	1212-20S
			2	FJ8706-2020S
			189”	FC300-20
81934	1	Air Compressor to Air Tank	2	1206-10S
			2	63-473A-10
			2	900568-10B
			116”	2807-10
81935	1	Lower Articulate Pin Grease Line	1	1AA4MP4
			1	1AA4FJ4
			18”	GH781-4
81936	1	Return Line for Fuel	1	1AA4MFA4
			1	1AA5FJ4
			187”	GH781-4
81937	1	Grease Line (Auger Bearing)	1	1AA2MP4
			1	1AA4FJ4
			12”	GH781-4
81938	2	(Under Rear Frame Assembly) 2 Grease Lines (Steering Cylinder)	1	1AA2MP4
			1	1AA4FJ4
			10	GH781-4
81939	1	Upper Articulate Pin Grease Line	1	1AA4MP4
			1	1AA4FJ4
			15”	GH781-4
81940	1	Sunstrand Pump to Suction Filter	34”	2661-20
81941	1	Gate Valve to Vickers Pump	10”	2661-32
81947	1	Upper Turntable Grease Line: Rear Nylatron	1	1AA4FJ4
			1	1AA4MP4
			10.5	GH781-4

T-630 Hose Contents

Part #	Qty	Hose Placement	Contents	
			Qty	Part #
81948	1	Upper Turntable Grease Line: Front Nylatron	1	1AA4FJ4
			1	1AA4MP4
			22.5	GH781-4
81949	1	Upper Turntable Grease Line: Center Bearing	1	1AA2MP4
			1	1AA4FJ4
			11.5”	GH781-4
81950	2	Cushion Valve to Swing Motor (Top to Top & Bottom to Bottom)	1	1AA8FR8
			1	1AA8MP8
			34.5”	GH781-8
81951	1	Auger Valve Outlet Tee Straight End to Auger Speed Selector	1	1AA12FR12
			1	1AA12FRB12
			31”	GH781-12
81952	1	Two Speed Selector to Pump	2	1AA6FR6
			30”	GH781-6
81953	1	Two Speed Selector Return	1	1AA8FR6
			54”	GH781-6
81954	2	1 – Two-Speed Selector to Left Wheel Motor Bottom 1 – Left Motor Bottom to Right Bottom	1	1AA6FR6
			1	1AA6FRB6
			64”	GH781-6
81955	2	1 - Two Speed Selector to Left Wheel Motor Top 1 – Left Motor Top to Right Top	2	1AA6FR6
			62.5	GH781-6
81957	1	Hot Oil Valve to Oil Cooler	1	1AA8FR8
			1	1AA8FRB8
			23”	GH781-8
81958	1	Bottom of Pump Tee Blocks to Hot Oil Valve	2	1AA8FR8
			90”	GH781-8
81959	1	Bottom of Pump Tee Blocks to Hot Oil Valve	2	1AA8FR8
			72”	GH781-8
81960	2	Torque Hub Grease Line	4	1AA4FJ4
			72”	GH781-8
81961	1	Top Swing Bearing Grease Line	1	1AA4MFA4
			1	1AA4FJ4
			12”	GH781-4
81962	1	Bottom Swing Bearing Grease Line	1	1AA4MFB4
			1	1AA4FJ4
			6.75”	GH781-4

Auburn
Power Wheel Hub

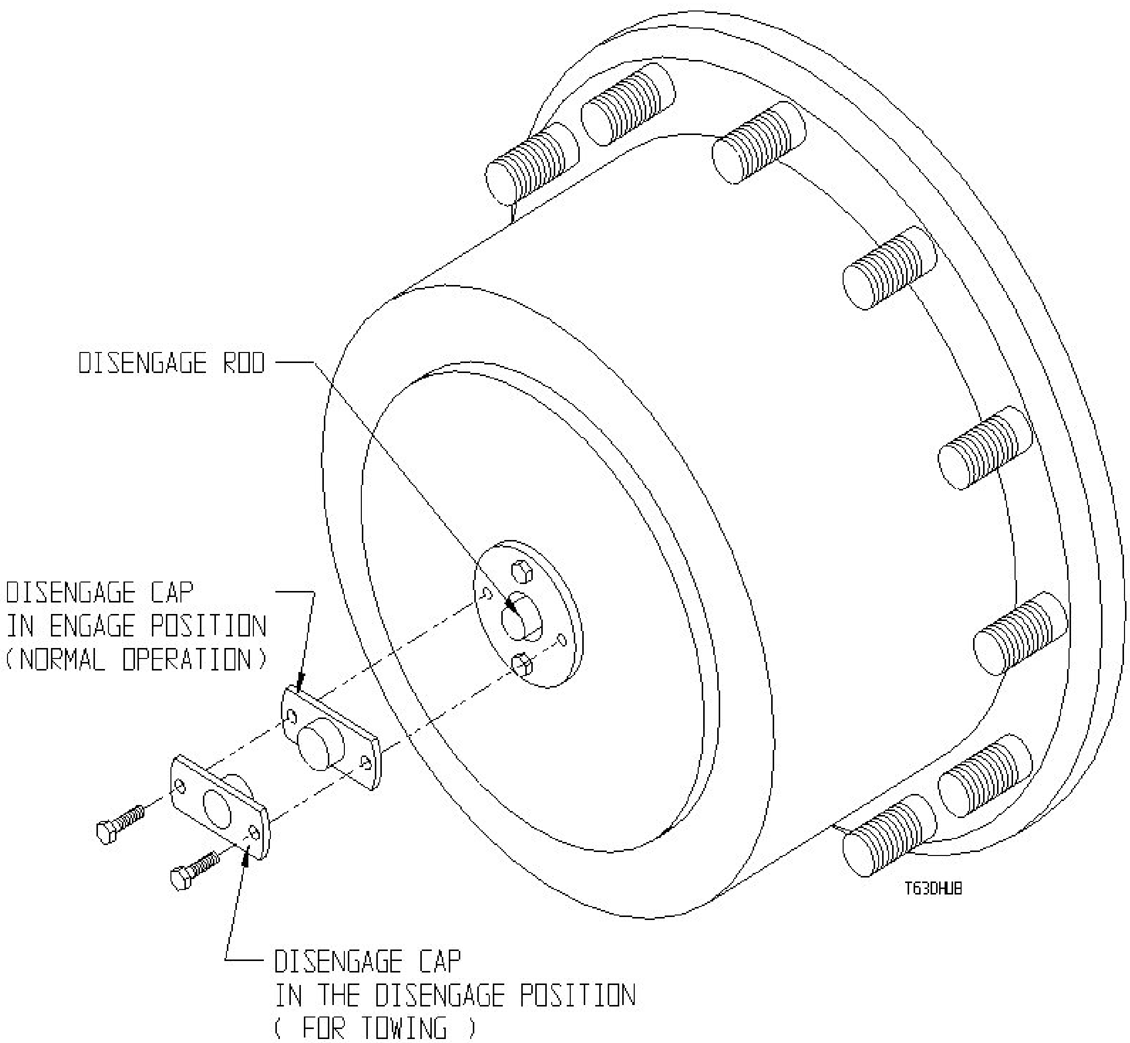
To Disengage Gearbox for Towing

Remove (2) ¼” Bolts holding Disengage Cap.

Turn cap over and bolt back on the housing.

Reverse the procedure to re-connect the gearbox for driving. **Caution** must be taken to make certain the Disengage rod is in the out position before re-installing the cap!!!!

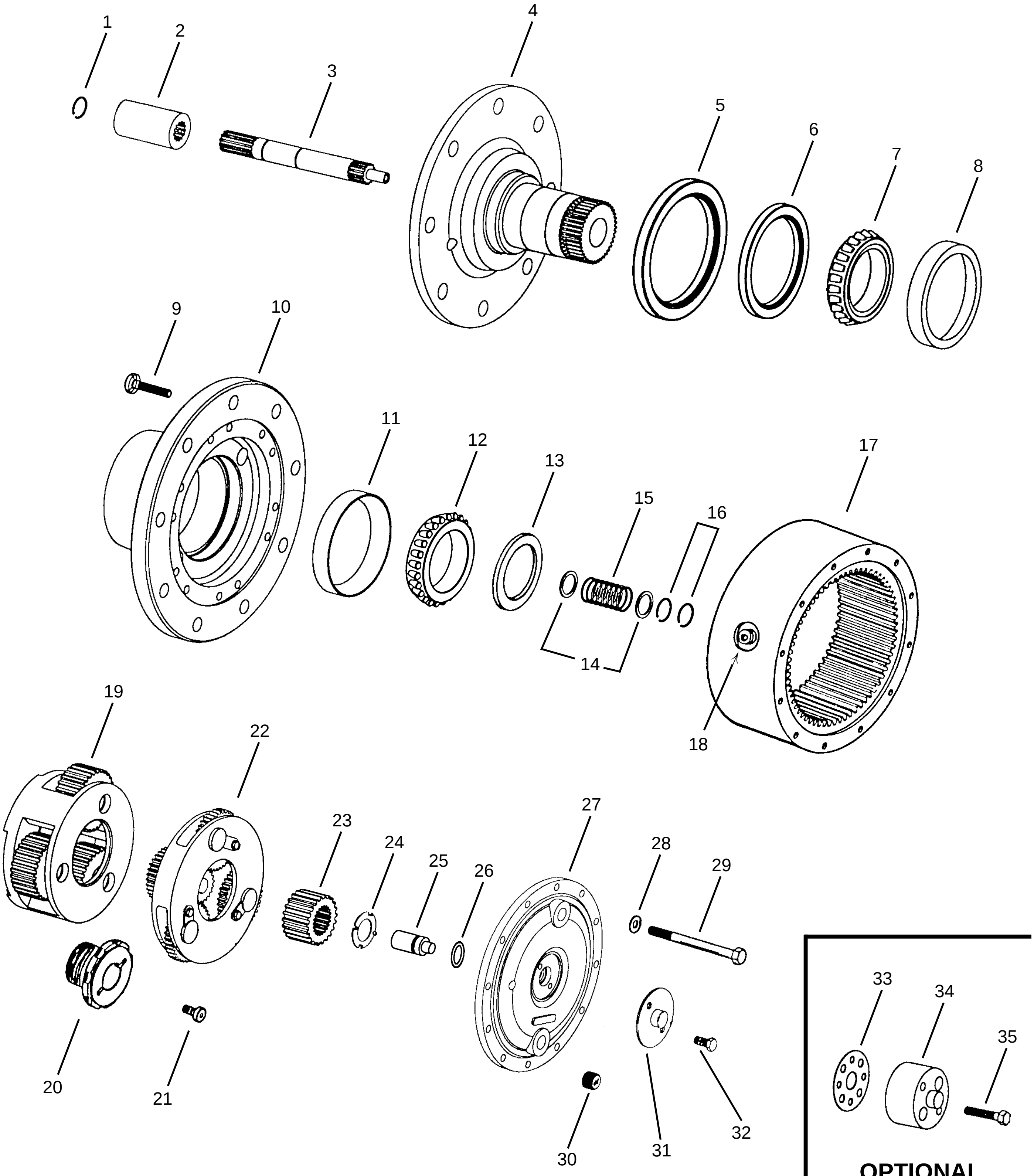
Procedure must be done to both gearboxes



Power Wheel® Service Manual
Model 10 Double Reduction Wheel Drives

AUBURN, INDIANA 46706-3499
U.S.A.

PHONE: (219) 925-3200
FAX: (219) 925-4725



IDENTIFICATION

IMPORTANT: All Power Wheel units and kits are shipped with a nameplate that includes the Auburn Gear part number and order code as shown.

Example:



In addition to the nameplate, Power Wheel drives are stamped with an identification number which appears on the cover or hub flange as shown.

Example: **6000236-A-4-9**

When ordering parts, the information included on the nameplate or the stamped identification number is necessary to accurately identify the drive and obtain the correct replacement parts. Once this information has been obtained, contact Auburn Gear for the appropriate parts list.

DISASSEMBLY OF POWER WHEEL

STEP 1

Slide the coupling (2) from splines on input shaft (3).

STEP 2

Position the assembly upright on face of spindle (4).

STEP 3

Remove the disengage cover (31) if necessary.

STEP 4

Remove twelve bolts (29), flat washers (28) and large cover (27). Disengage plunger (25) usually remains with large cover (27). Remove plunger (25) and "O" ring (26) from cover or end of input shaft (3). The thrust washer (24) will usually remain in position on the thrust face of large cover (27).

STEP 5

Remove primary sun gear (23) from end of input shaft (3).

STEP 6

Remove the primary carrier assembly (22).

STEP 7

Remove the input shaft (3) from the assembly. The disengage spring (15), thrust washers (14), and retaining rings (16) will remain intact on the input shaft. Remove these components only if replacement is required.

STEP 8

Remove the bearing nut lock screw (21).

STEP 9

Remove the secondary carrier assembly (19). Removal is accomplished by loosening the lock screw (21) and bearing locknut (20) until the carrier assembly can be removed from spindle (4) splines. Loosen lock screw (21) with 3/16 hex drive. It may be necessary to remove the ring gear (17) first, if difficulty is encountered in removing the carrier. **Note:** A special service tool is required for removal of the bearing locknut. Contact Auburn Gear for procurement of service tool, part number 592Y.

STEP 10

Remove the ring gear (17). It may be necessary to strike ring gear (17) with a rubber mallet to loosen from hub.

STEP 11

Remove thrust plate (13) from in front of the tapered bearings and lift hub (10) from spindle (4). If bearings are not a loose fit, it may be necessary to press spindle from hub.

STEP 12

Remove the oil seal (6) and bearing cones (7 & 12) from hub (10). Inspect bearing cups (8 & 11) in position and remove only if replacement is required.

ASSEMBLY OF POWER WHEEL

STEP 1

Press new bearing cups (8 & 11) in each side of the hub (10). It is recommended that bearing cups (8 & 11) and cones (7 & 12) be replaced in sets.

STEP 2

Assemble bearing cone (7) into cup (8) at seal end of hub (10) and press a new seal (6) into hub (10). Install boot seal (5) on hub (10) if unit is so equipped.

STEP 3

Position spindle (4) upright on bench. Lubricate lips of seal (6) and lower hub (10) onto spindle (4). Hub (10) should be centered as it is lowered over spindle (4) to prevent seal damage.

STEP 4

Assemble bearing cone (12) over spindle (4) and into bearing cup (11). Replace thrust plate (13) over spindle end splines and on bearing cone (12).

STEP 5

Assemble secondary carrier assembly (19) splines over splined end of spindle (4). Install bearing locknut (20). Tighten locknut to 75 lb. ft. (101.9 Nm) while rotating the hub to seat bearings. Loosen the locknut 1/2 turn then retighten locknut to 85 – 90 lb ft. (115.2 – 121.9 Nm) while rotating the hub. Loosen the locknut to nearest locking notch and secure with lock screw (21). Tighten lock screw to 20 – 25 lb. ft. (27.2 – 34.0 Nm).

STEP 6

Clean mating surfaces and apply a bead of silicone sealant to face of hub (10) that mates with ring gear (17). (See instructions on sealant package) Assemble ring gear (17) to hub (10) being careful to align all bolt holes.

STEP 7

Assemble a washer (14), spring (15), a second washer (14), and a retaining ring (16) in the middle groove of input shaft (3). Install a second retaining ring (16) in groove near small end of input shaft (3).

STEP 8

Place the input shaft (3) down into spindle (4) with the snap ring end of the shaft up.

STEP 9

Assemble the primary carrier assembly (22) into the ring gear (17). It will be necessary to rotate carrier to align secondary sun gear {part of primary carrier assembly (22)} with planet gear teeth in secondary carrier assembly (19). Assemble primary sun gear (23) over input shaft (3). Rotate primary sun gear (23) to align input shaft (3) to gear splines and gear teeth in primary carrier assembly (22).

STEP 10

Lubricate "O" ring (26) and assemble in groove inside cover hole, push plunger (25) into cover with pointed end facing inside of unit.

STEP 11

Assemble the thrust washer (24) with tangs engaged with cover (27). **Note:** A small amount of grease applied to the back side of thrust washer (24) will hold washer in place. Apply a bead of silicone sealant to end face of ring gear (17). Assemble cover (27) aligning holes of cover and ring gear. Install the twelve Grade 8 bolts (29) and flat washers (28) which retain cover (27) and ring gear (17) to hub (10). Torque bolts to 120 – 130 lb. ft. (163.2 – 176.8 Nm).

STEP 12

Assemble the disengage cover (31) with dimpled center protruding out if wheel is to be used to drive the vehicle. Assemble and torque the two 5/16 - 18 x 1/2 inch bolts (32). Torque bolts to 10 - 20 lb. ft. (13 - 27 Nm).

STEP 13

If required, assemble a new retaining ring (1) into groove in inside diameter of coupling (2). Invert the Power Wheel assembly and assemble the coupling (2), with end nearest retaining ring out onto the input shaft (3). **Note:** Coupling (2) must be assembled to input shaft so that end with retaining ring is nearest motor or spindle side of drive.

STEP 14

After motor is assembled to drive or drive is sealed at spindle, fill with lubricant to proper level and replace all plugs.

NOTE: When installing a hydraulic motor to the Power Wheel drive it is necessary to place an “O” ring or gasket (not supplied by Auburn Gear) between the motor and the planetary drive. “O” ring sizes: SAE A 2-042, SAE B 2-155, SAE C 2-159.

CARRIER ASSEMBLIES

It is recommended that the secondary and primary carrier assemblies (19 & 22) be serviced in their entirety to protect the integrity of the Power Wheel drive.

LUBRICATION RECOMMENDATIONS

IMPORTANT: POWER WHEEL PLANETARY DRIVES ARE SHIPPED WITHOUT LUBRICANT AND MUST BE FILLED TO THE PROPER LEVEL PRIOR TO START UP.

Observe lubrication recommendations given by the original equipment manufacturer. When specific recommendations are not available, use mild extreme pressure lubricant API-GL-5, No. 80 or 90 when filling the Power Wheel under normal temperature ranges between 0 - 120°F (-18 to 49°C). Power Wheel is to be half full of oil when unit is mounted level and horizontal. Use drain and fill plugs located in cover and ring gear. Oil is to be changed after first 50 hours of operation with subsequent changes every 1000 hours or yearly, which ever comes first. If unit is to be operated vertically, if ambient conditions are outside the specified range, or if the oil temperature exceeds 200°F (93°C) contact Auburn Gear for oil and level recommendations.

TOWING VEHICLE

CAUTION: The Power Wheel will not normally be damaged by towing; however, the hydraulic drive components may be damaged unless the Power Wheel is disengaged from the drive motor. Road speeds in excess of 25 MPH should be avoided unless clearly specified to be permissible by the equipment manufacturer.

TO DISENGAGE POWER WHEEL

CAUTION: For units equipped with the standard spring disconnect, assemble the disengage cover (31) with the dimpled center protruding inward. For units equipped with the optional quick disconnect, push in center plunger of disconnect. **PARKING BRAKE WILL NOT FUNCTION IF UNIT IS DISENGAGED.**

STORAGE

A protective film is applied to the Power Wheel at the factory to prevent rust during shipment. Additional protection may be required if the Power Wheel is to be stored for an extended period of time.

SEALING COMPOUND

Silastic RTV732 sealer and General Electric Silimate RTV No. 1473 or RTV No. 1503 are currently recommended for sealing gasket surfaces. Sealant should be applied in a continuous bead, which should be centered on the surface to be sealed but should move to the inside of the hole at each bolt hole location. For service requirements order Auburn Gear part number 604101.

SPECIFICATIONS

Maximum intermittent output torque .... 180,000 lb. in. (20,340 Nm)
Maximum input speed .... 5,000 RPM
Oil capacity .... 150 oz (4,435 ml)

ITEM NO.	DESCRIPTION*	NO. USED IN ASS'Y.	ITEM NO.	DESCRIPTION*	NO. USED IN ASS'Y.
1	Retaining Ring	1	19	Secondary Carrier Assembly	1
2	Coupling	1	20	Locknut (Serviced as part of the Carrier Assembly)	1
3	Input Shaft	1	21	Lock Screw 618304 (Serviced as part of the Carrier Assembly)	1
4	Spindle	1	22	Primary Carrier Assembly	1
5	Boot Seal 604411	1	23	Primary Sun Gear	1
6	Oil Seal 604404	1	24	Thrust Washer	1
7	Bearing Cone 613305	1	25	Disengage Plunger	1
8	Bearing Cup 613306	1	26	"O" Ring 614101	1
9	Wheel Bolt	12	27	Large Cover	1
10	Hub	1	28	Flat Washer 604703	12
11	Bearing Cup 613313	1	29	Hex Head Bolt (Grade 8)	12
12	Bearing Cone 613312	1	30	Pipe Plug 03-04-101-09	1
13	Thrust Plate 619304	1	31	Disengage Cover 14-02-039-005	1
14	Washer	2	32	Hex Head Bolt 618305	2
15	Disengage Spring 615603	1	33	Quick Disconnect Gasket	1
16	Retaining Ring	2	34	Quick Disconnect Assembly	1
17	Ring Gear	1	35	Hex Head Bolt	2
18	Magnetic Plug 14-00-052-002	1			

* Contact Auburn Gear with part number and order code of drive to obtain the appropriate parts list. Refer to parts list for the specific part numbers and quantities.

Model 10 Power Wheel® Service Kits

Part No.	Description	Included Items
592Y	Model 10 Bearing Locknut Tool	Not Shown

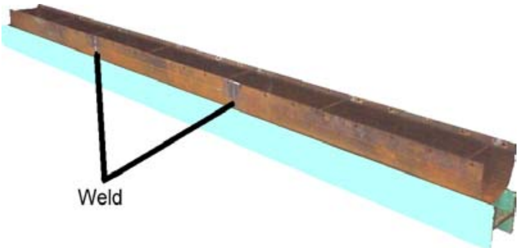
AuburnGear

Bill of Materials for Part Number: 60001861 (Order Code: 0W2B13519ZR ~ 10" P.W. - 1ST A)

there is no service manual available for this part number

Part	Description	Need	Pack
6079146	SPINDLE ~ #10 - INT B/N - 1ST	1	1
604411	SEAL-BOOT ~ #10	1	1
604404	SEAL-OIL, MODEL 10	1	1
608938	COUPLING ~ #10 - 1ST ARTICLE R	1	1
613305	BEARING-CONE	1	1
613306	BEARING-CUP	1	1
613312	BEARING-CONE	1	1
613313	BEARING-CUP	1	1
617930	HUB ~ 10"	1	1
619304	WASHER-THRUST	1	1
604702	WASHER-SPR BACK UP	2	1
615603	SPRING-DISENGAGE	1	1
618914	SHAFT-INPUT ~ #10	1	1
613914	RING-RETAINING	2	1
10-00-041-002	COMPOUND-SEALING - 10.3 OZ. CA	1	1
603924	COVER ~ 10" WD	1	1
614101	RING-O (SVC = 10/PKG)	1	10
14-02-039-005	COVER-DISENGAGE ~ 6"	1	1
618305	BOLT-HEX HEAD ~ 5/16-18 X. 5	2	1
610801	PLUNGER	1	1
604703	WASHER-FLAT	12	1
0009430269	BOLT-HEX HEAD ~ 9/16 X 12 X 6"	12	1
14-00-191-003	PLUG-SHIPPING, SAE B, 4.06" O.	1	1
14-00-052-002	PLUG-PIPE ~ 1/2-14 MAGNET (SV	1	2
03-04-101-09	PLUG-PIPE ~ 1/8-27	1	1
616217	GEAR-RING ~ 10"	1	1
616564	GEAR-PRI SUN ~ #10	1	1
665963	ASSY-PRI CARRIER ~ 10"	1	1
665964	ASSY-SEC CARRIER ~ 10"	1	1
14-00-193-003	WASHER-THRUST (SVC = 5/PKG)	1	5
618310	BOLT-WHEEL ~ 3/4-16 NF2A (SVC	12	10

T-630 Chute Kit Assembly and Installation



81990	21ft Chute Kit
81990-12	22ft Chute Kit

A piece of beam or channel works well to keep chute pieces aligned. Aligning center bend lines on bottom, work from center around to weld the three sections together as shown, inside and out. Grind outside flat where it will slip up into chute channels.



Cut spacer rods from scrap rebar or similar about 14-1/4” long. Squeeze chute to spacers and tack weld. Shown below.

The chute is ready to install.

Remove Auger and old Chute from T-630. Clean concrete build up from all surfaces where new components will mate.





Caulk one Chute Bolt Flange and install to rear of hopper.



Install Chute into position, resting on Chute Bolt Flange just installed making sure bolt holes are aligned.

Start about the middle of the Chute installing bolts on each side, but do not tighten. Work toward the discharge end of the chute installing the rest of bolts, still not tightening. Install the Bearing Cap and Chute Bolt Flange, leaving them loose also.







Next steps critical to maintain chute alignment.



Level the Chute Channels to the level of T-630. Use weights or crane to maintain level.



Loosely install bolts from middle of chute toward hopper as far as easily reached from outside hopper. Caulk each side of Chute from hopper to just in front of cab.



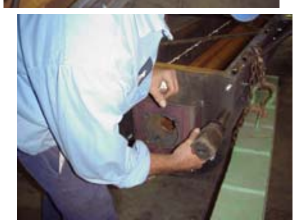
From inside hopper, caulk each side of the Chute.

Loosely install all remaining bolts. Then tighten all bolts in the hopper area. Break out temporary spacers as you go.



Now back outside the hopper, caulk about 1/3 of remaining chute area.
Tighten bolts to near the end of the caulk. Breaking out spacers.
Caulk another 1/3 and tighten, removing spacers.

Caulk the remaining Chute and tighten the rest of the bolts.
Tighten Bearing Cap and Chute Bolt Flange.



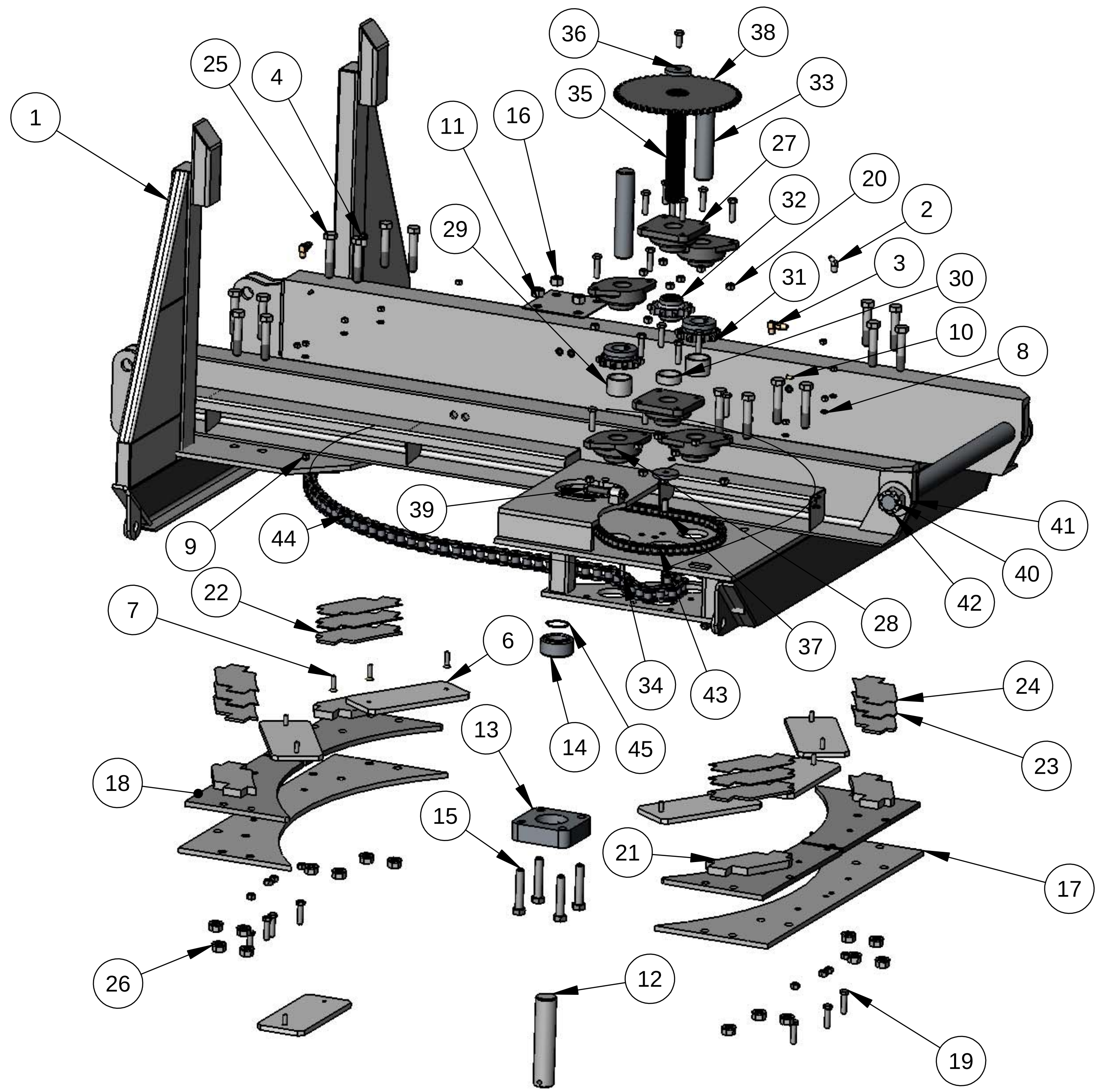


Weld Chute Bolt Flanges Front and Rear.



Level bottom of Spout with top of Chute and weld.

Cut Chute out for Spout after welding.

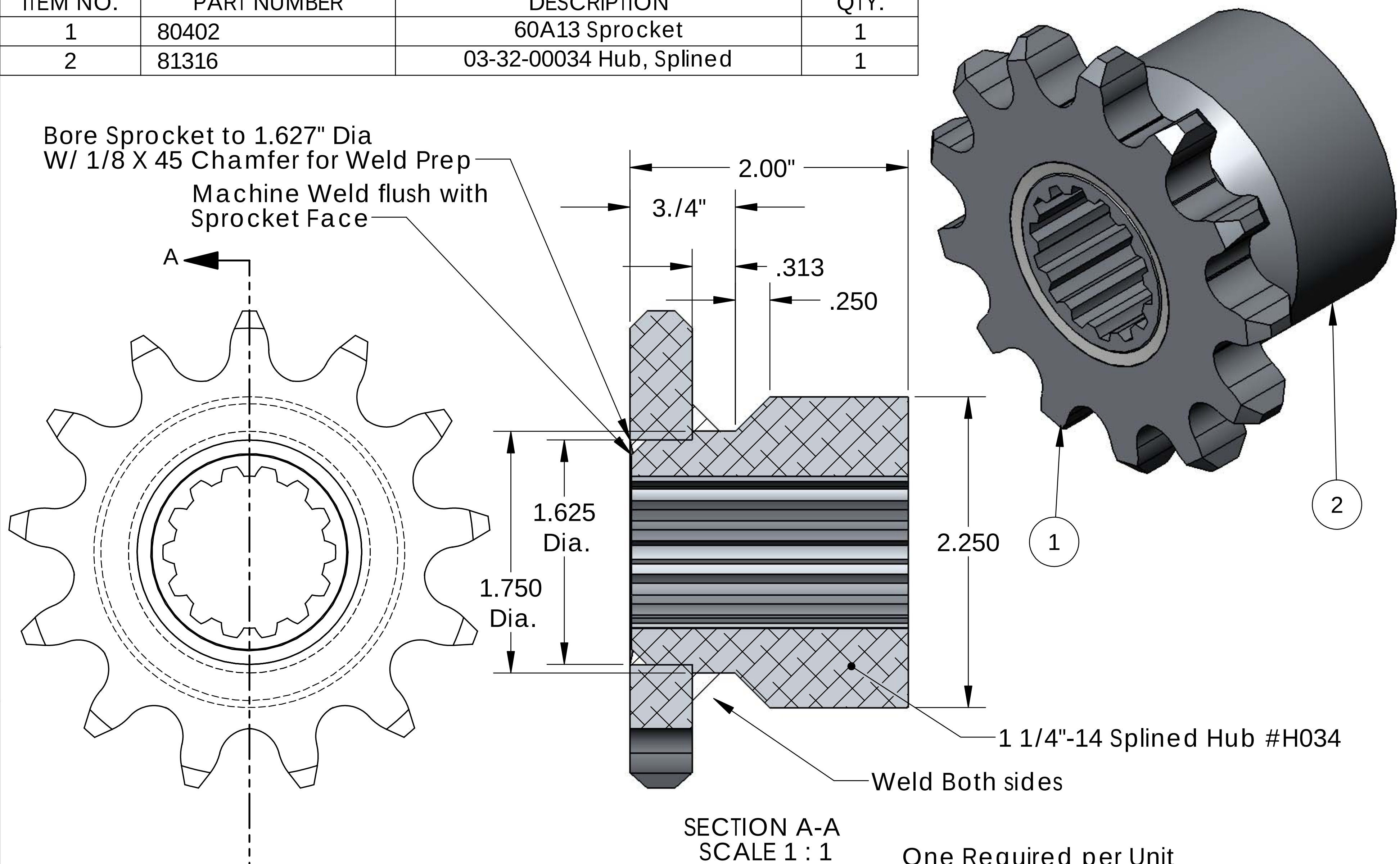


UPPER TURNTABLE ASSEMBLY

81250KM few

ITEM NO.	PART NUMBER	DESCRIPTION	Manual/QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	Manual/QTY.
1	812661	Upper Tt Fab Assembly	1	23	p81290	Bracket 10 Ga. Spacer Slide	4
2	2023-4-4S	Adaptor, Aeroquip	1	24	p81290	Bracket 14 Ga. Spacer Slide	4
3	205102	BW 90 Deg. Elbow 205102	2	25	34-4CS	Screw Cap .75 X 4	16
4	2024-4-4S	Adaptor, Aeroquip	1	26	34FN	Nut Flanged L. 3/4-10	16
5	14GF-ST	Grease Fitting 1/4" Strt.	3	27	80502	Bearing Swing Assy. Center	2
6	812751	Bearing Nylatron Upper Tt	6	28	80501	Bearing Swing Assy.	4
7	80546	3/8-16 X 1 1/2" Brass CS Bolt	12	29	81274	Spacer Tt Drive 1-5/8"	2
8	38LW	3/8" Lock Washer	12	30	81303	Spacer .8125 Tt Drive	1
9	38N	3/8-16 Hex Nut	12	31	81306-01	Sprocket 100 Outer-lower Swing	2
10	246089	BW Tube Insert 246089	2	32	80408-01	Sprocket Splined Lower Swing	1
11	P81229	Up Tt Pivot Brg. Cover	1	33	81295	Shaft Idler Tt Sprocket	2
12	81265	Shaft Turntable	1	34	812951	Keystock Tt Idler Shaft	2
13	81277	Housing Tt Pivot Bearing	1	35	81305	Shaft 1-3/4 8/16 DP 13 Tooth	1
14	80306	Bearing Hopper Pivot	1	36	81285	Retainer Swing Shaft Spr.	2
15	34-4CS8F	Screw Cap .75 X 4 Gr8	4	37	12-114CS	1/2-13 X 1 1/4" Cap Screw	2
16	34SLNF	Nut Self Lckg Fine .75	4	38	80407-01	Sprocket Splined Swing Drive	1
17	81287	Bracket TT Hook Slide	2	39	812862	Bolt Tt Swing Motor Adj.	1
18	81253	Bearing Nylatron Hook Slide	4	40	8102	Hopper Tt Shaft Welded	1
19	12-2CS	1/2-13 X 2 Hex Cap Screw	24	41	112FW	1 1/2" Flat Washer	1
20	12SLN	1/2-13 Self Locking Hex Nut	25	42	112CN	1 1/2"-12 Castel. Nut	1
21	p81290	Bracket 3/4 Pl. Spacer Slide	4	43	81293	Tt Chain Kit (#60)	1
22	p81290	Bracket 1/4" Pl. Spacer Slide	4	44	81292-01	Chain Kit Tt(#100)	1
45	Truarc 5100-200 - S2	Retaining Ring T.t. Ctr. Pi	1	45	Truarc 5100-200 - S2	Retaining Ring T.t. Ctr. Pi	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80402	60A13 Sprocket	1
2	81316	03-32-00034 Hub, Splined	1

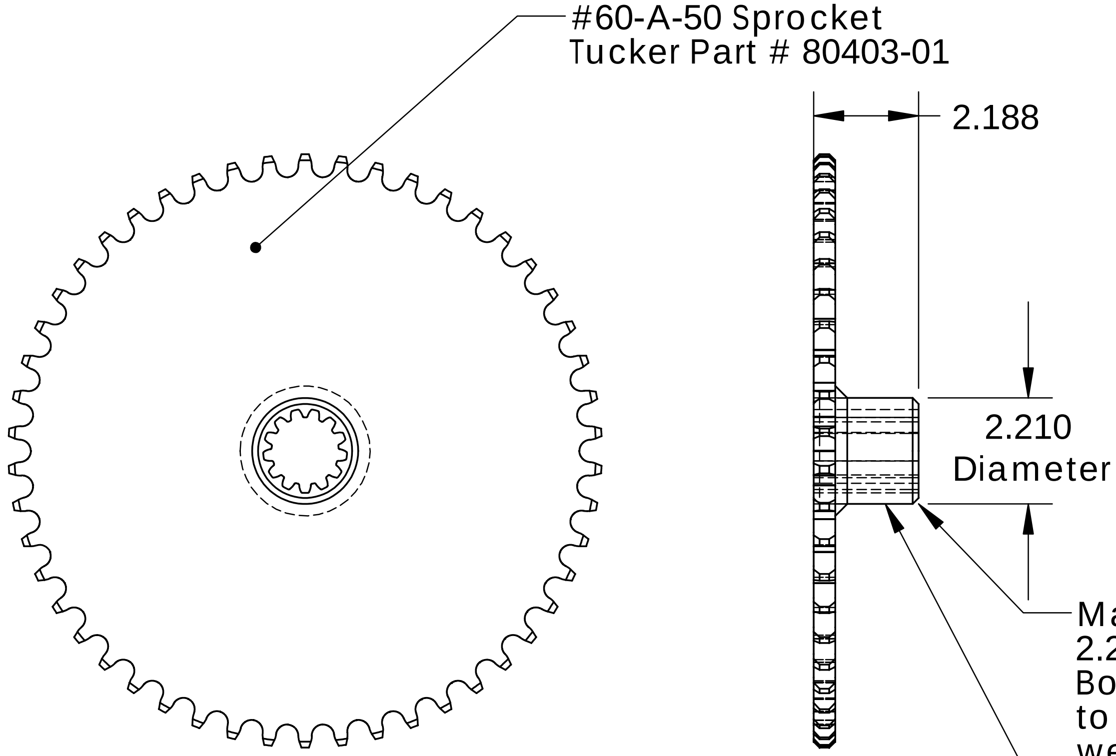


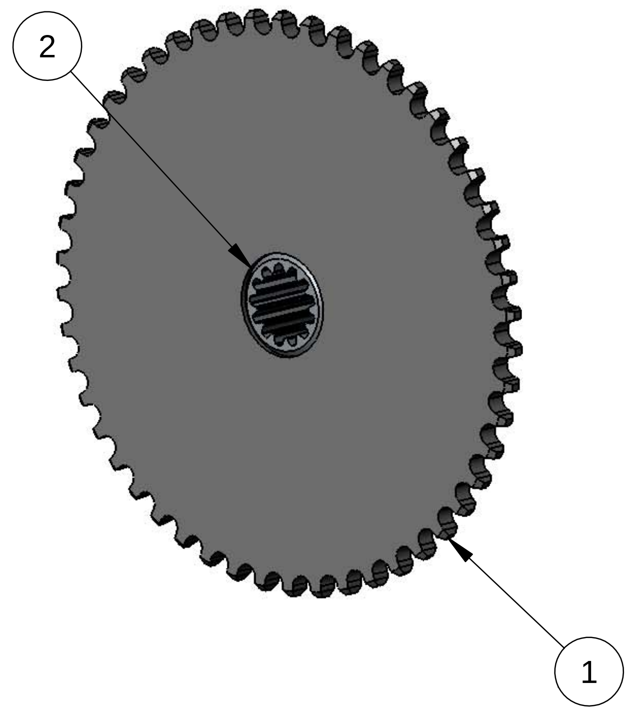
One Required per Unit

80406	DR. BY FEW
T-630	DATE 2/16/2006
Sprocket Splined Swing Motor	SHOP # 80406

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6050x		1
2	80403	Hub 2.210 OD x 2-3/16 w/ 8/16 Spline	1
3	bead6		1

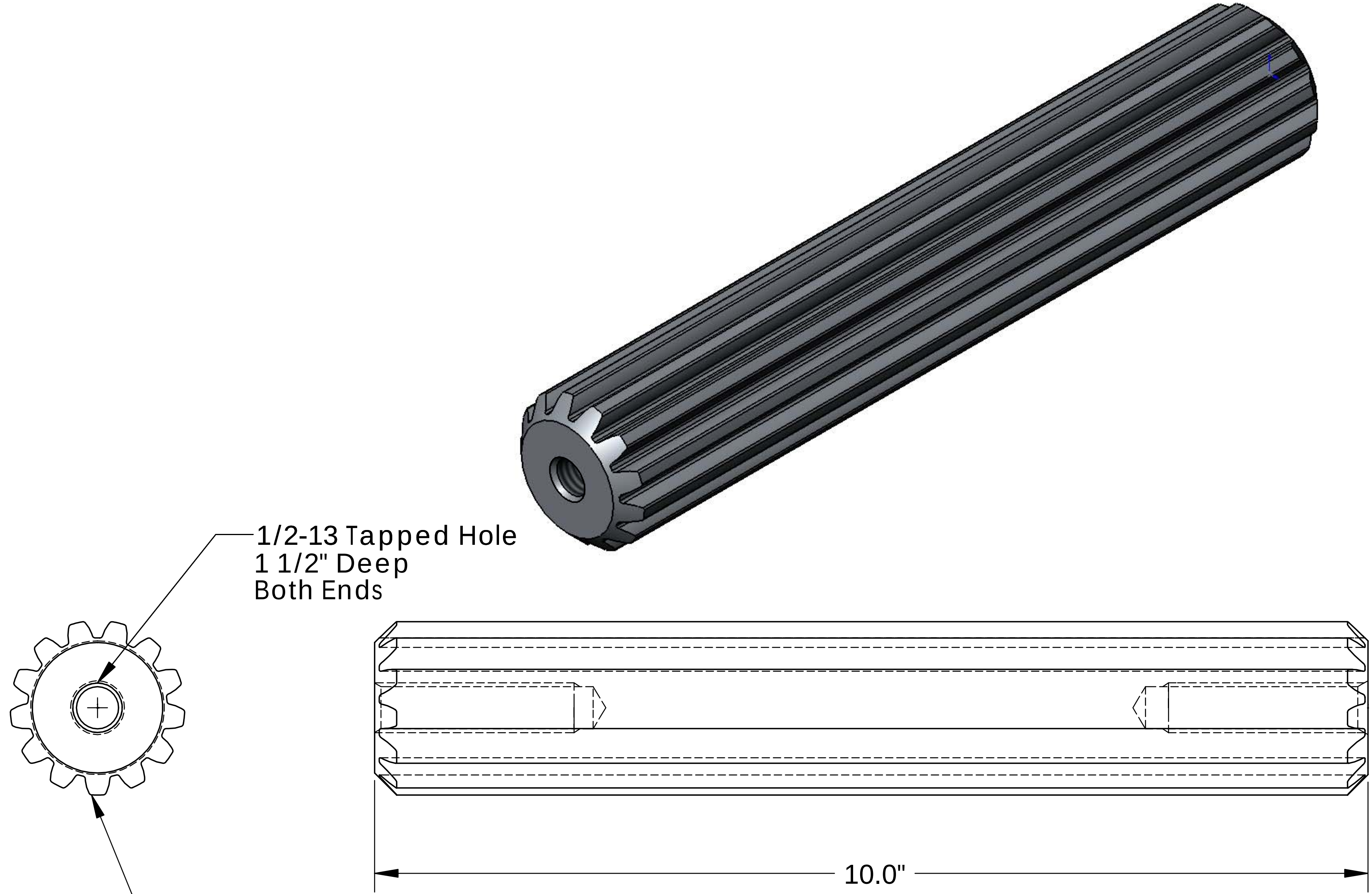




One Required per Unit

80407-01	DR. BY few
T-630	DATE 2/16/2006
Sprocket Splined Swing Drive	SHOP # 80407-01

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

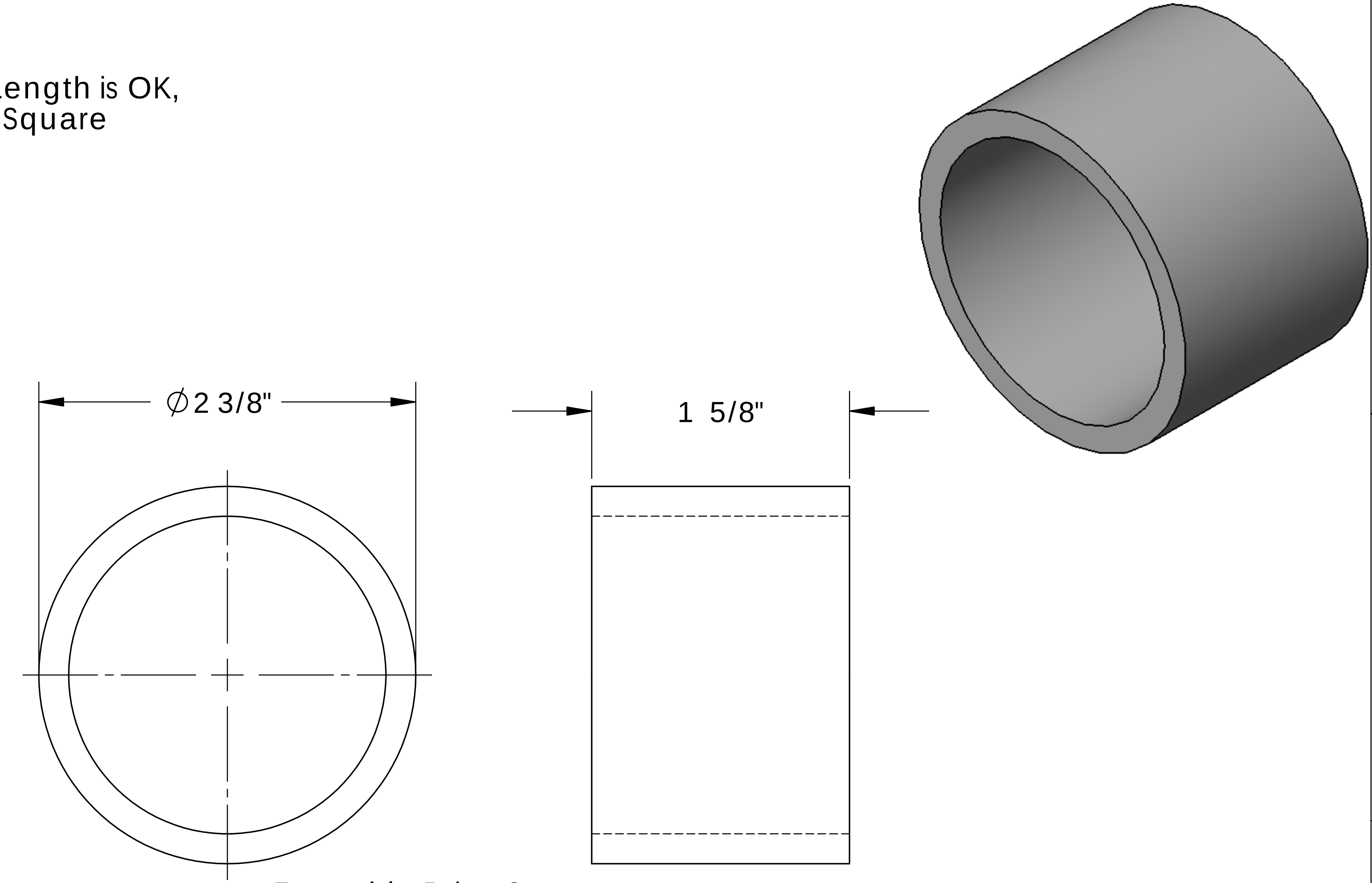


One Required per Unit

81305	DR. BY FEW
T-630	DATE 10/12/2004
Shaft 1-3/4 8/16 DP 13 Tooth	SHOP # 81305

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Saw Cut to Length is OK,
but must be Square



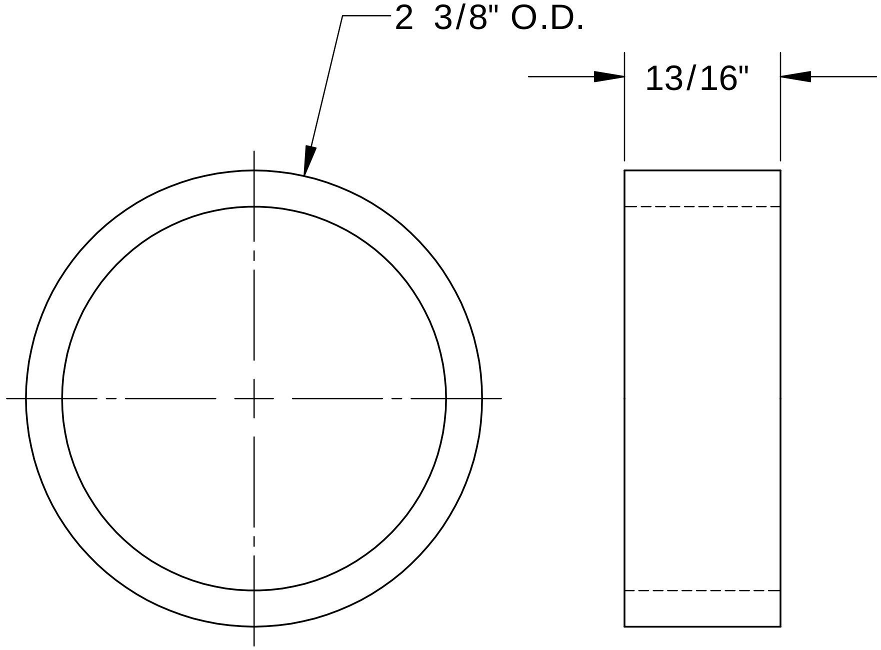
Turntable Drive Spacer

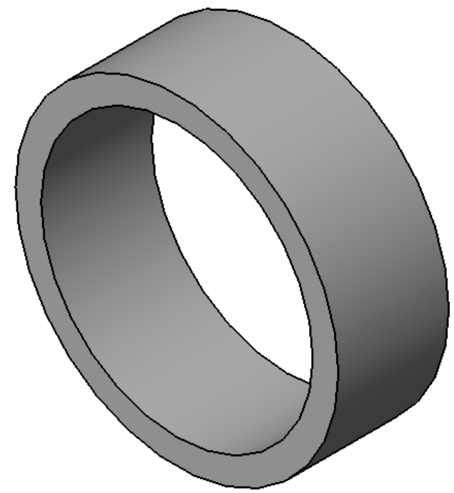
Two Required, 2" Sch 40 Black Pipe

81274	DR. BY FEW
T-630	DATE 12/13/2004
Spacer Tt Drive 1-5/8"	Scale: NONE
	81274

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Saw Cut OK but must be Square



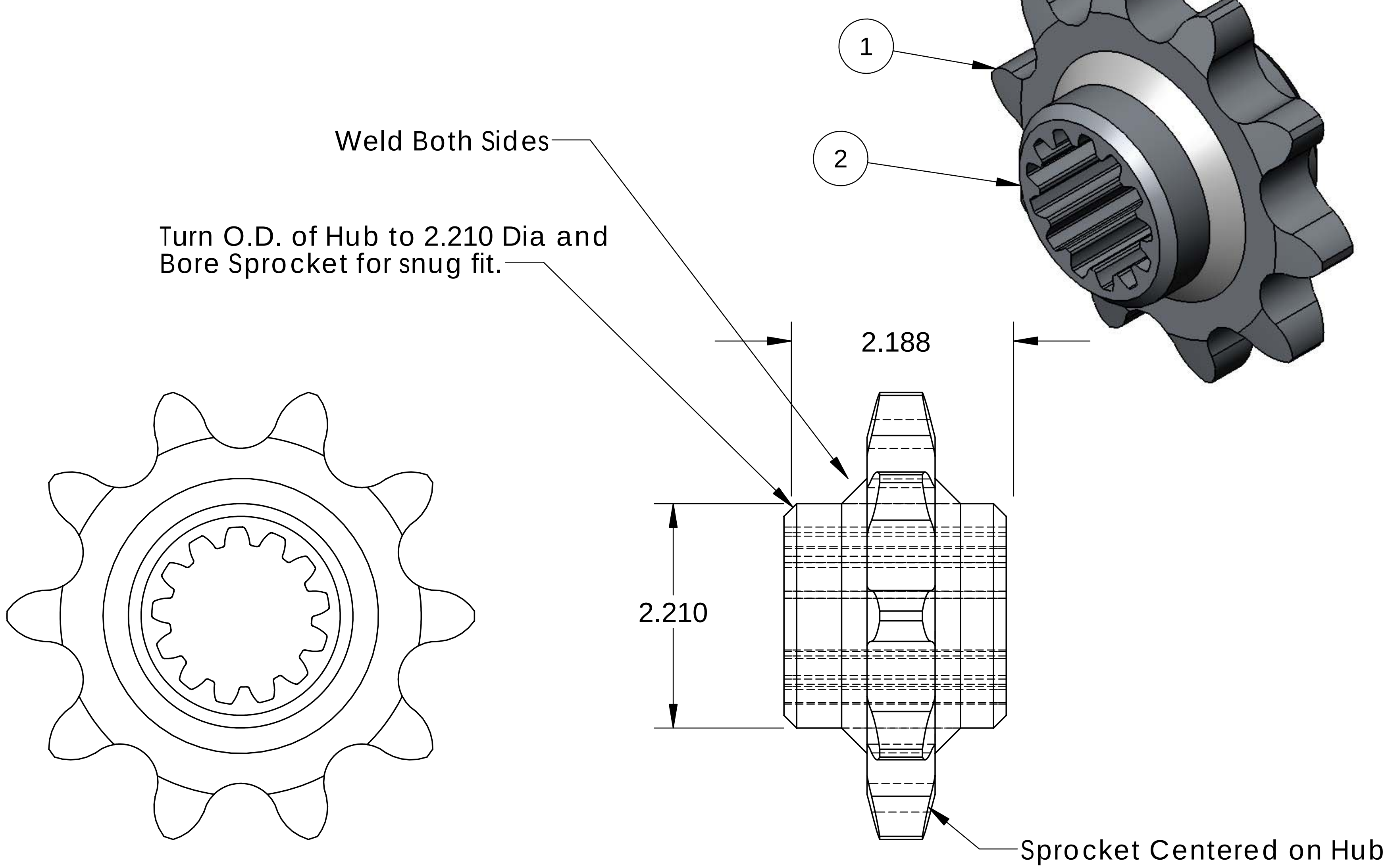


One Required, 2" Sch 40 Black Pipe

81303	DR. BY FEW
T-630	DATE 12/13/2004
Spacer .8125 Tt Drive	Scale: NONE
	81303

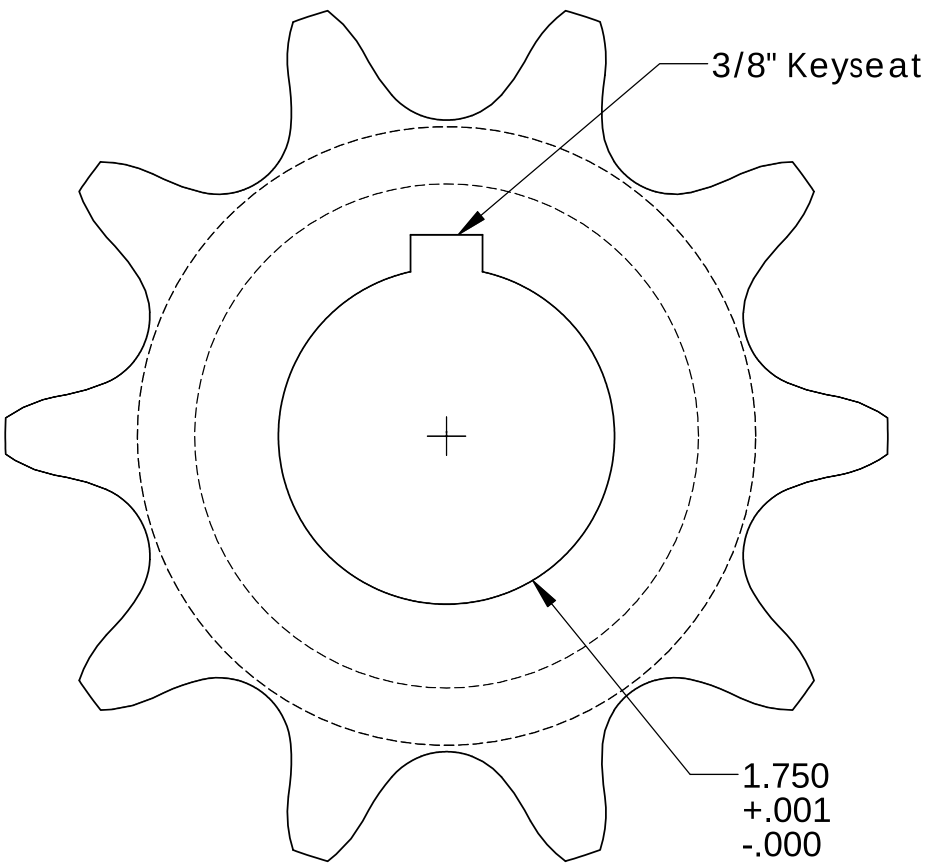
TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

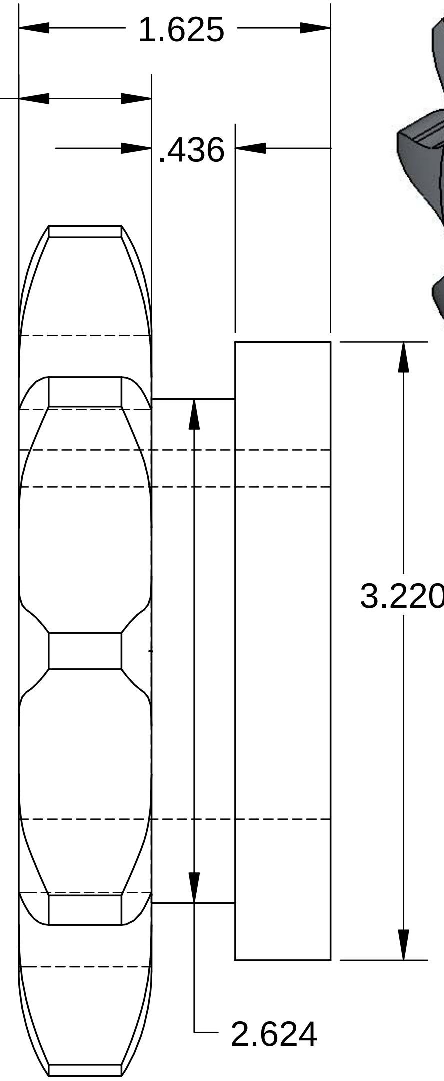
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80400-01	100 A 10 Sprocket	1
4	80403	Hub 2.210 OD x 2-3/16 w/ 8/16 Spline	1

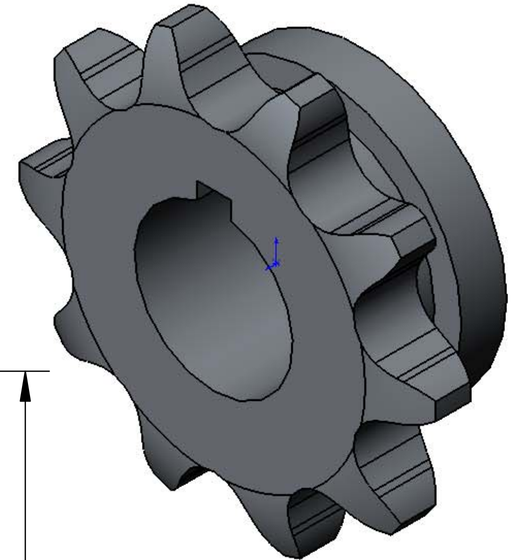


80408-01	DR. BY few
T-630	DATE 2/16/2006
Sprocket Splined Lower Swing	SHOP # 80408-01

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810





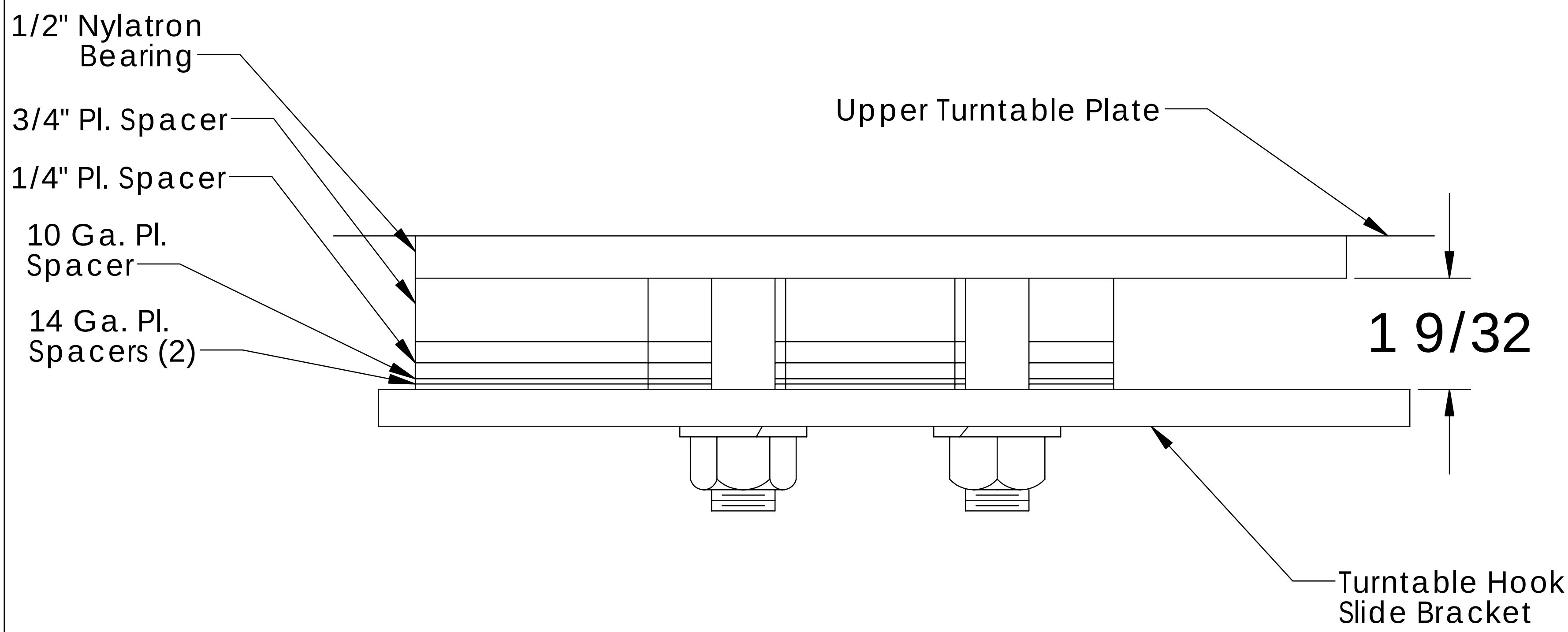


100B10 Sprocket (Martin)
Tucker # 80401-01 (1990)

Two Required per Unit

81306-01	DR. BY FEW
T-630	DATE 10/14/2004
Sprocket 100 Outer-lower Swing	SHOP # 81306-01

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

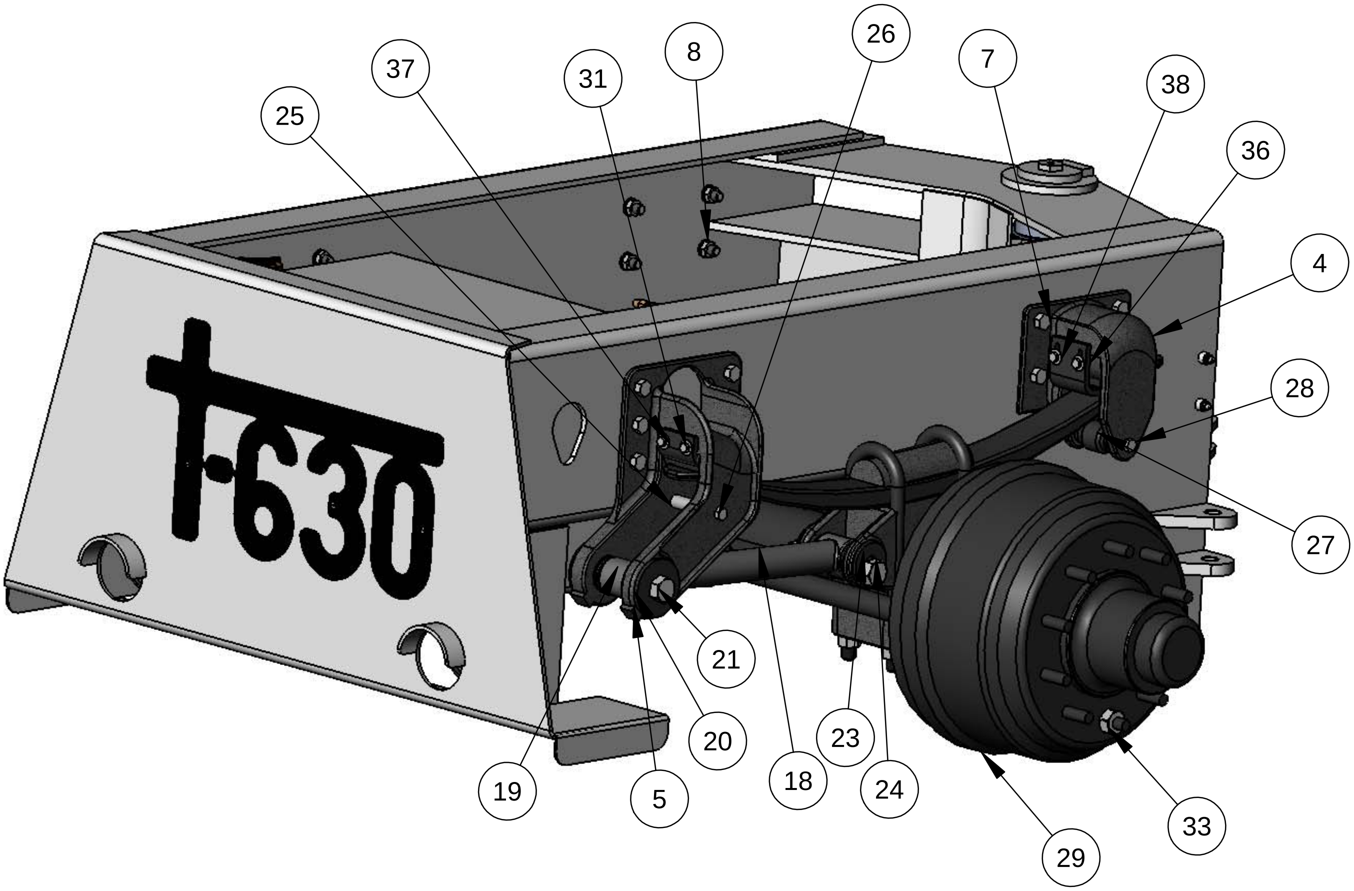


SPACERS REQ. PER T-630

4 - Req. - 3/4"Pl. Part #81288
4 - Req. - 1/4"Pl. Part #81289
4 - Req. - 10 Ga. Pl. Part #81290
8 - Req. - 14 Ga. Pl. Part #81296

SPACERS - SLIDE BRACKET

81250KM Spacers few

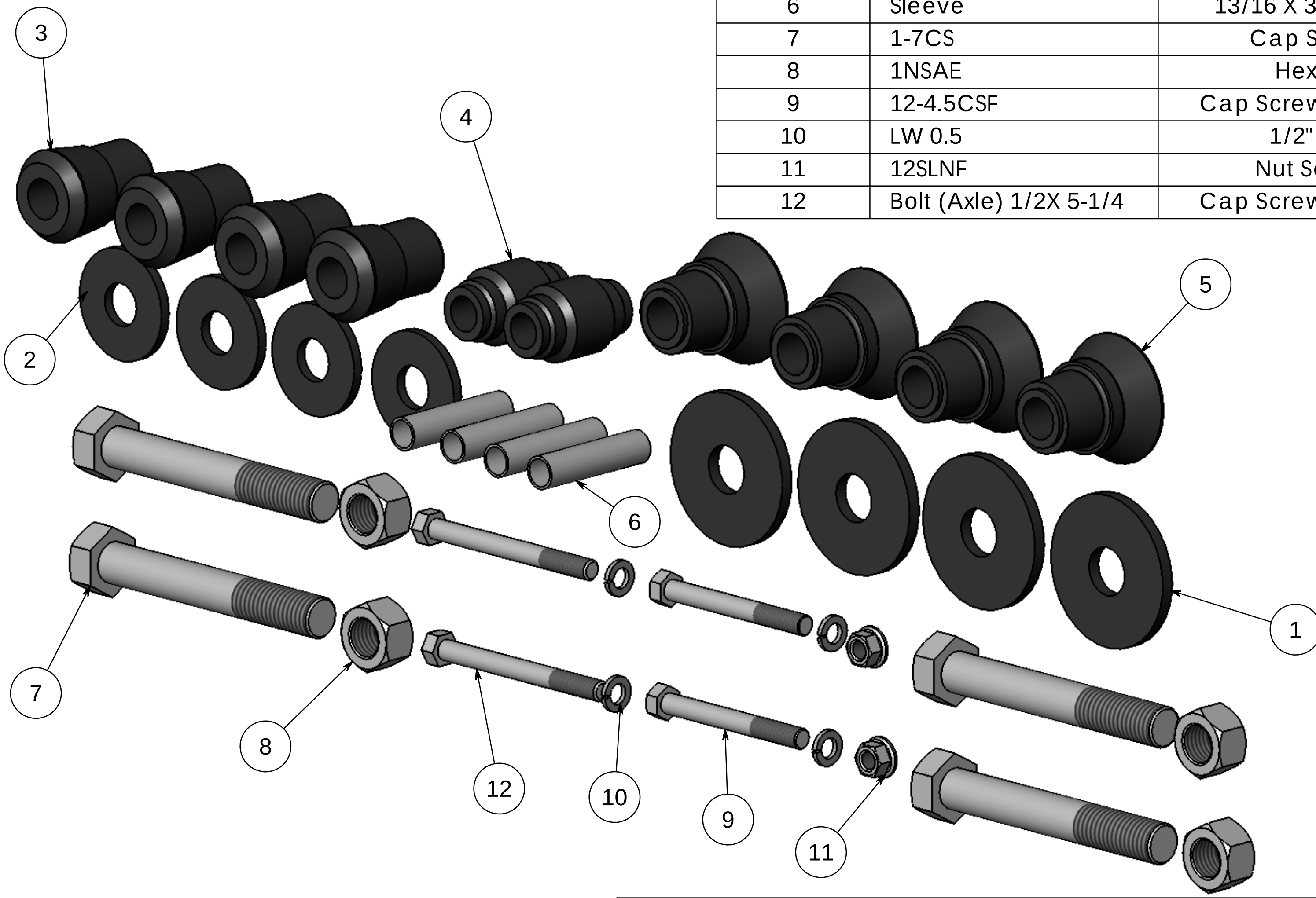


FRONT SUSPENSION

81205M few

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	81185 Spring Hanger	Spring Hanger Bracket LR **Reyco#2252301(Left Rear Shown)**	2
5	81186LH	Spring Hanger RH **Reyco # 2252102 (Not Shown)**	1
6	81186 RH	Spring Hanger Bracket LH **Reyco # 2230101 (Left Front shown)**	1
7	58-134CS8F	Screw Cap 5/8 x 1 3/4 GR 8 Fine	20
8	58FNF	Nut Flange L. Sae 5/8-18	20
18	80570-10	Torque Arm T-630 **Reyco # T7643**	2
19	21278-01T	Rubber Bushing 3 **Reyco # T5493**	4
20	Big Washer	1 3/16" X 3 3/4" X 5/16" Washer	4
21	1-7CS	Cap Screw Sae 1 X 7	4
22	1NSAE	Hex Nut l. Sae 1"	4
23	T-5493	Rubber Bushing 1	4
24	Small Washer	1 1/16" X 2 3/4" X 1/4" Washer	2
25	Sleeve	13/16 X 3 5/16 X 5/8 Sleeve	4
26	12-4.5CSF	Cap Screw Sae 1/2-20 X 4 1/2	2
27	2X3X7-8	Rubber Bushing 2	2
28	12-5CSF	Cap Screw Sae 1/2-20 X 4 1/2	2
29	81762	Front Axle Assembly	1
31	38-114CS	Cap Screw .375 X 1.25	20
33	80343	Nuts Right Hand Wheel	2
36	80570-11	T-630 Hanger Wear Pad	4
37	38FW	Washer Flat .375	4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Big Washer	1 3/16" X 3 3/4" X 5/16" Washer	4
2	Small Washer	1 1/16" X 2 3/4" X 1/4" Washer	4
3	T-5493	Rubber Bushing 1	4
4	2X3X7-8	Rubber Bushing 2	2
5	21278-01T	Rubber Bushing 3	4
6	Sleeve	13/16 X 3 5/16 X 5/8 Sleeve	4
7	1-7CS	Cap Screw Sae 1 X 7	4
8	1NSAE	Hex Nut l. Sae 1"	4
9	12-4.5CSF	Cap Screw Sae 1/2-20 X 4 1/2	2
10	LW 0.5	1/2" Lock Washer	4
11	12SLNF	Nut Self Lckg Fine .5	2
12	Bolt (Axle) 1/2X 5-1/4	Cap Screw Sae 1/2-20 X 5 1/4	2



80570-01

T-630

DR. BY few

DATE 10/7/2005

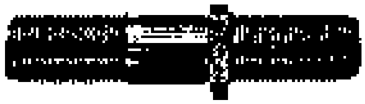
MACHINE & STEEL
SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Bushing Kit T-630 Axle

SCALE: 1:4

80570-01

T-630 Front Wheel Stud



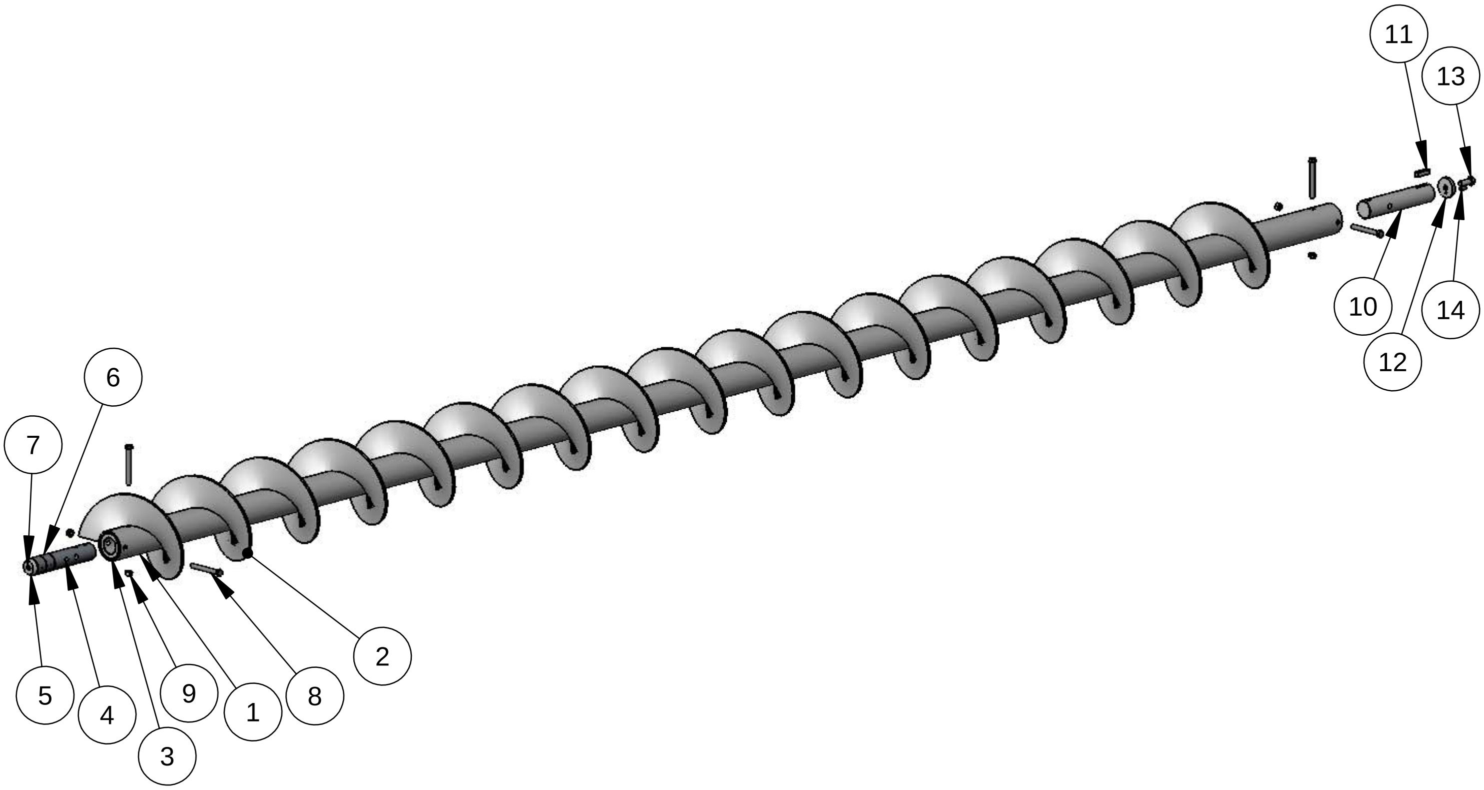
¾" – 16 THDS.
BOTH ENDS

CLIPPED COLLAR
SHOULDER STUDS

EUCLID No. E-5560-R

DOORMAN No. 610 044

BUDD No. 19004-5

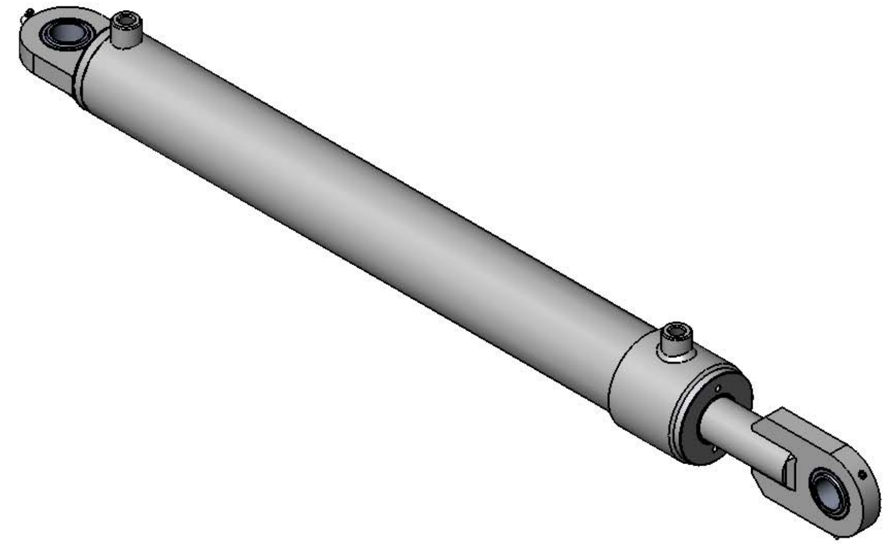


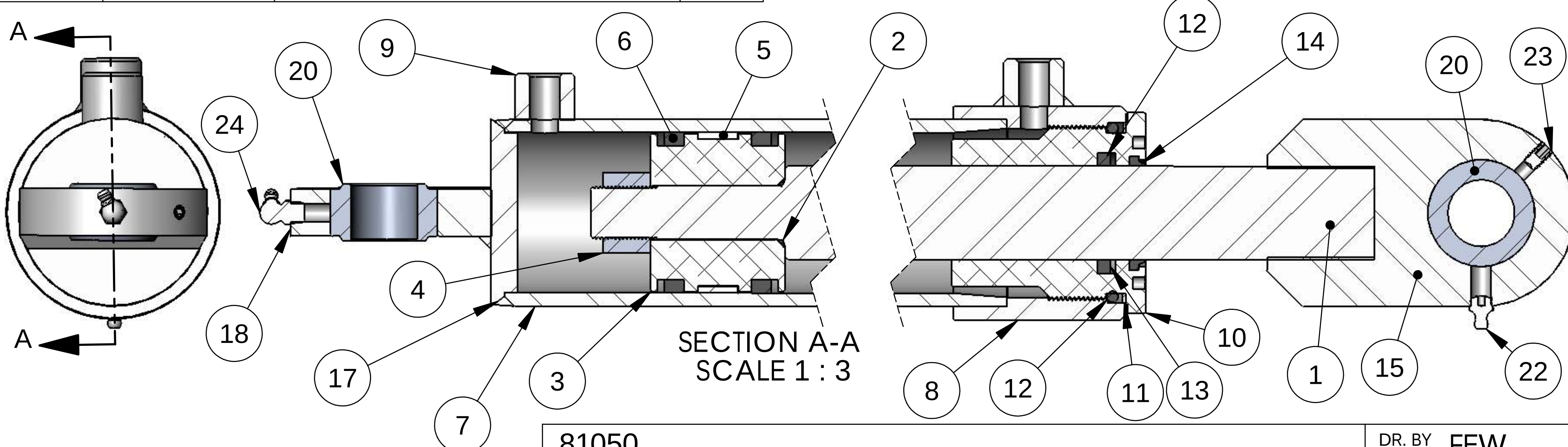
T-630 AUGER

81020KM few

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81020K	4" Sch. 80 Pipe (21')	1
2	81028	Flights W/ Hard Surface	17
3	81027D	Pipe Sleeve Auger Drilled	2
4	81977-9	Front Drive - Rear Idler Shaft	1
5	81977-10	Front Drive - Rear Idler Shaft Bullet	1
6	80311	Rear Auger Seal - Inner Ring	2
7	12-1SHCS	Screw Socket Cap 1/2 X 1	1
8	58-512CS8	Bolts Auger	4
9	58SLN	Nut Self-lock .625	4
10	81977-3	Front Drive Auger Drive Shaft	1
11	81977-3KEY	Front Drive - Shaft Key	1
12	81029	Washer Idler Shaft	1
13	34-2CS	Screw Cap .75 X 2	1
14	12-1TP	Pin Tension 1/2 X 1	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81053	Rod (cyl.) Machined T-630	1
2	81050-17	Piston/Rod O Ring No. 568-022	1
3	81052	Piston Hyd. Cyl. T-630	1
4	81050-10	1"-14 Nylock Nut	1
5	81050-16	Piston Wear Ring No. 612-300-075	1
6	81050-15	Piston Polypak No. U25-2.50-37B	2
7	81054	Cylinder (hyd.) Mach. T-630	1
8	81055	Sleeve Cyl. Head T-630	1
9	81057	1/2" Pipe Half Coupling, High Pressure	1
10	81051	T-630 Cylinder Head	1
11	81050-13	Cylinder Head Backer Ring No. 575-337	1
12	81050-14	Cylinder Head O Ring No. 568-337	1
13	81050 -11	Poly Pak No. U25-1.75	1
14	81050-12	Wiper No. ST175	1
17	81056	Plate Hyd. Cyl. End T-630	1
18	81040	Tie Rod End - Cylinder	1
20	80500	Bearing T-630 Hyd. Cyl.	2
15	81041.	Rod - Tie Rod End	1
22	18GF-ST	1/8 Straight Grease Fitting	1
23	51618-12SS	5/16-18 X 1/2" Socket Set Screw	2
24	18GF-90	90 Deg 1/8 Grease Fitting	1



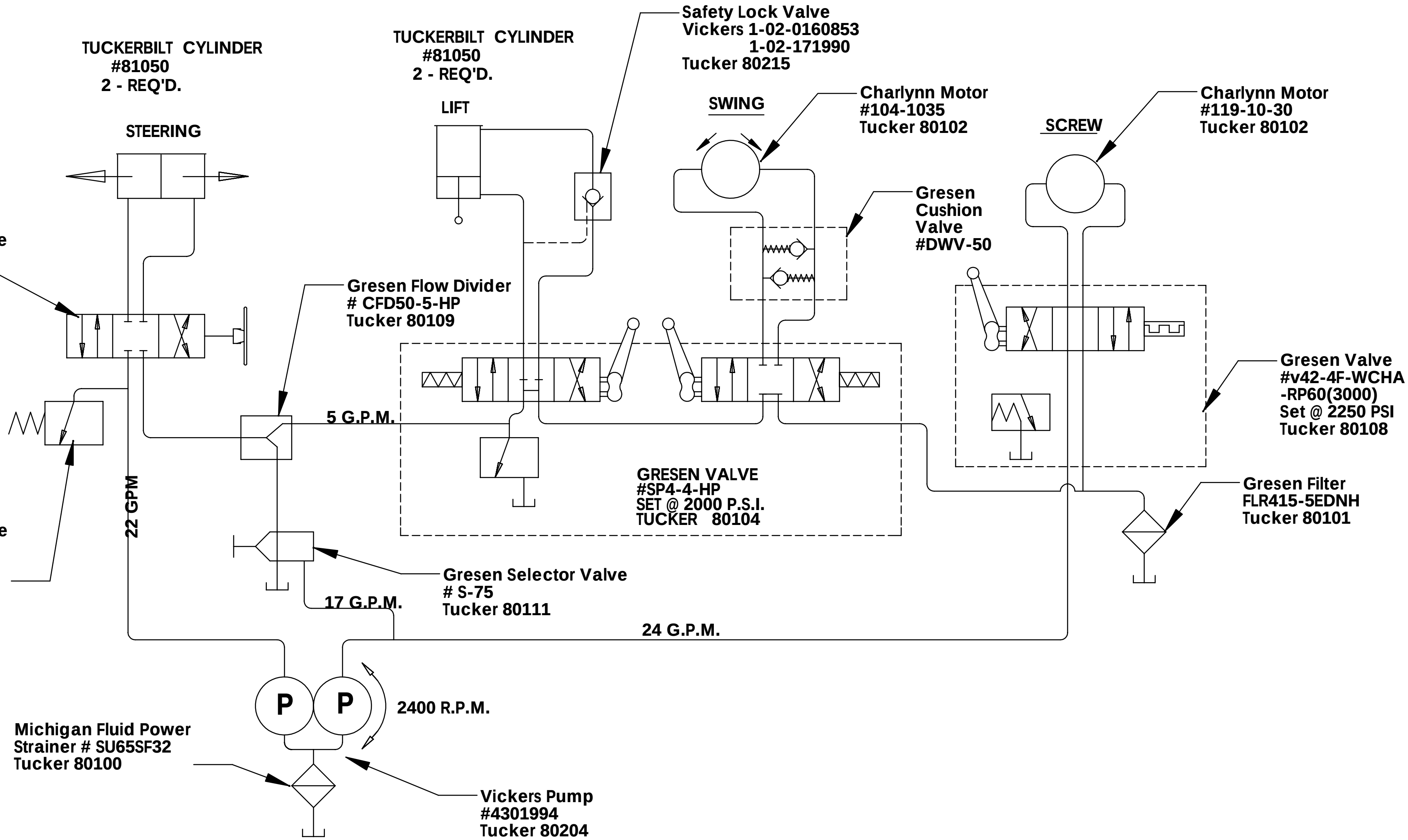


SECTION A-A
SCALE 1 : 3

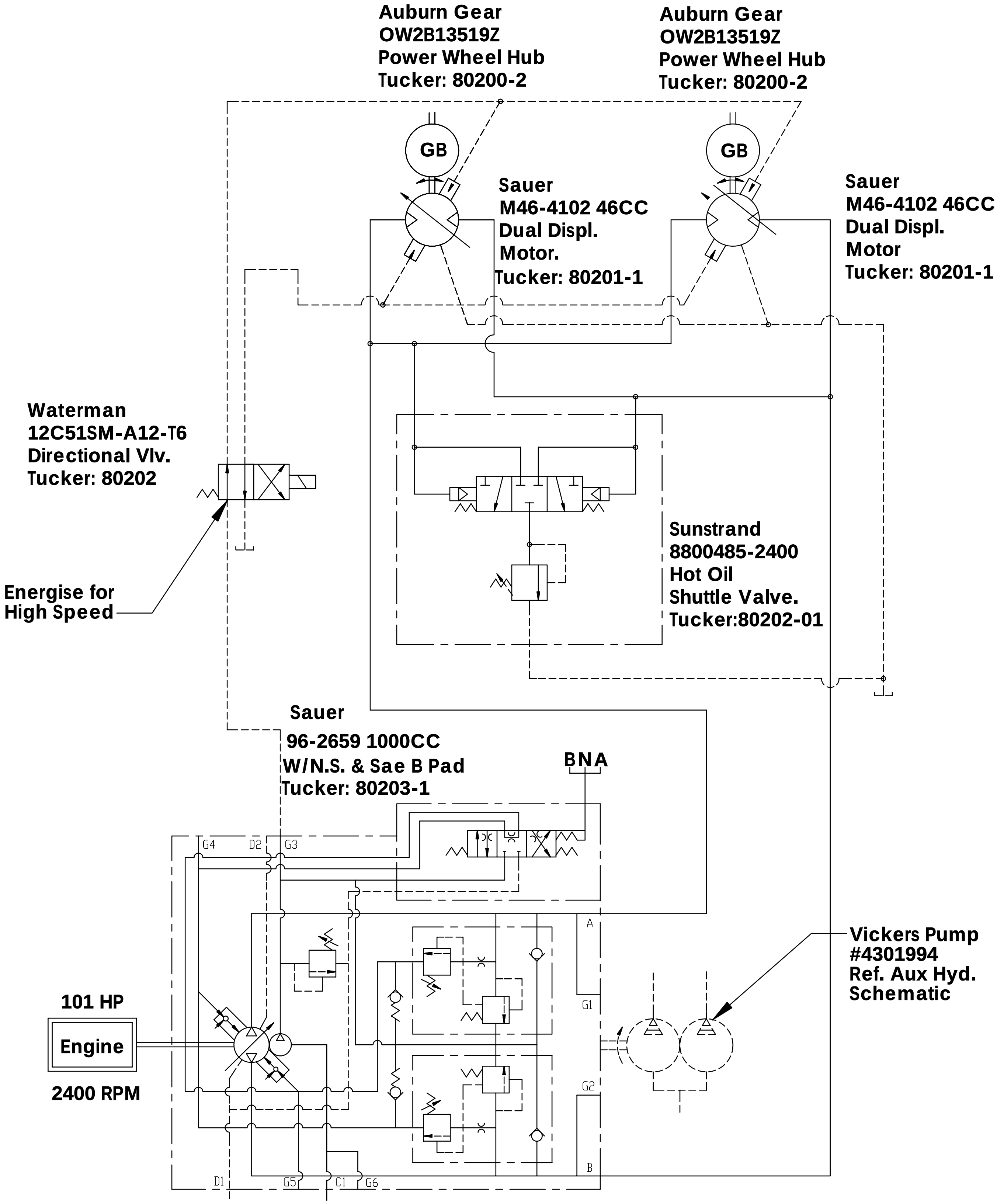
Four Required per Unit

81050	DR. BY FEW
T-630	DATE 3/22/2005
Hyd. Cylinder T-630	Scale: 1/3
	81050

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810



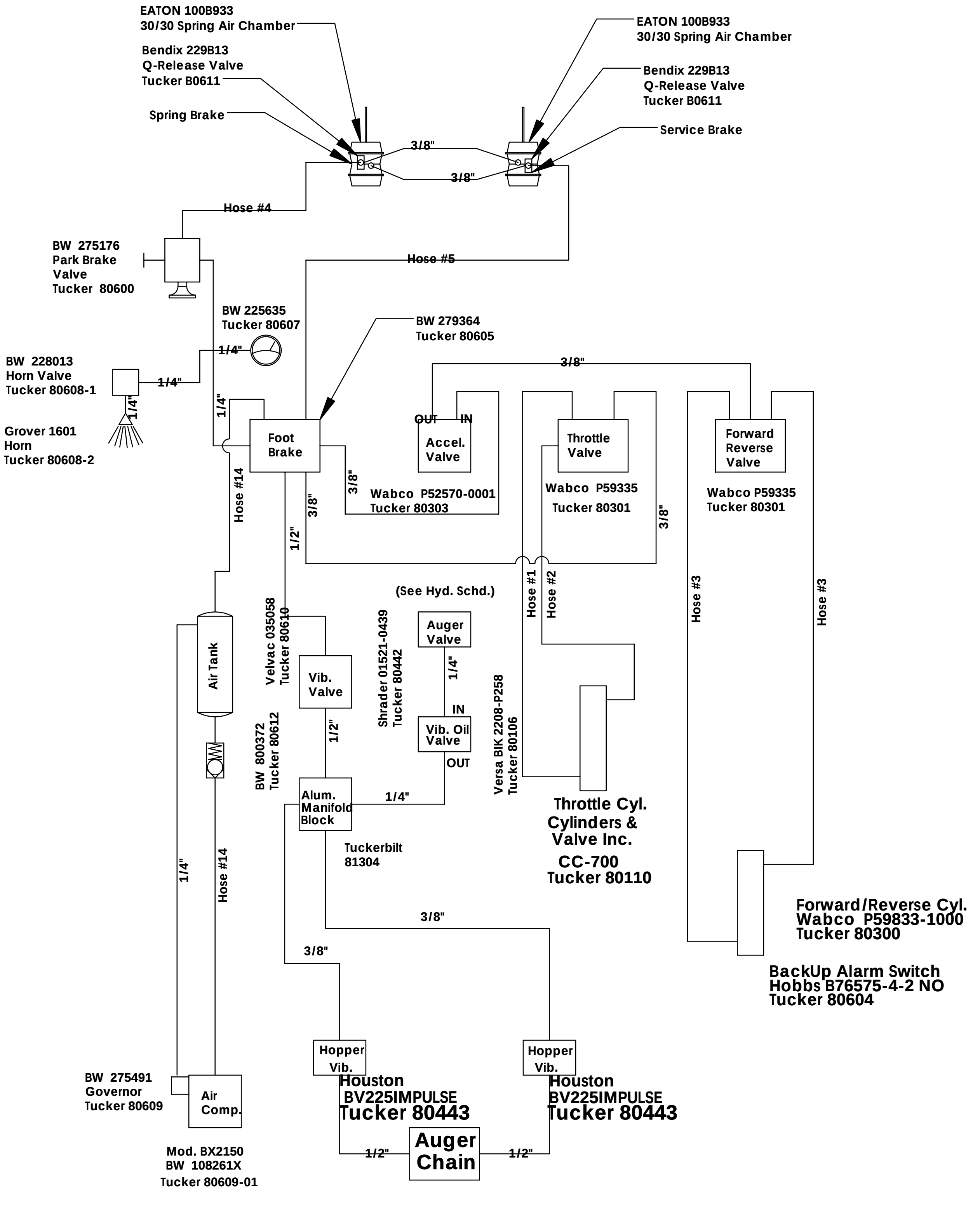
AUXILIARY CIRCUIT - HYD. SCHEMATIC



USE STANDARD PETROLEUM BASE
ANTI-WEAR HYDRAULIC FLUID WITH A
VISCOSITY OF 150-225 SSU @ 100°F

TWO SPEED PROPEL CIRCUIT

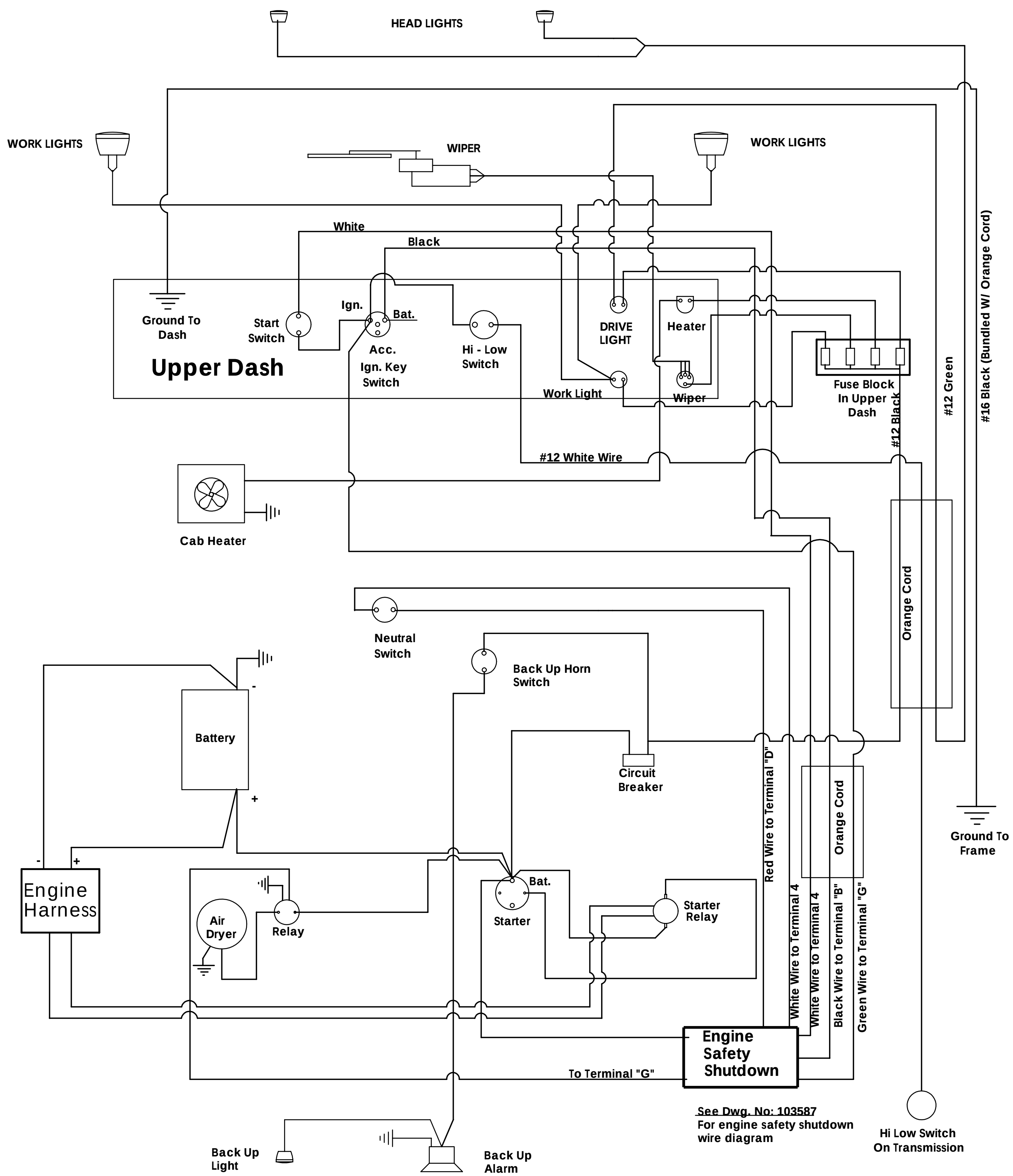
2 Speed Prop Cir few



AIR LINE SCHEMATIC

Note:
BW = Bendix - Westinghouse

85023



JOHN DEERE - WIRING DIAGRAM

93631
few

T-630 with John Deere Electronic Engines
Troubleshooting

The T-630 is equipped with a digital readout located in the "Gray Box" on the right side of the engine compartment. This diagnostic gauge gives hours, temperature, RPM, and a number of other items of regular information. In the event of a shut down or failure to start, service codes will be displayed. Before turning the key off, read the displays service codes which can be looked up in the John Deere manual received in the T-630 owner's manual.

The "Gray Box" serves as the junction box between John Deere and the shut down devices external to the John Deere installed on the T-630 as well as the key on/off and engine start signal.

The battery lead to the ECU on the John Deere is fused. Fuses are located in the Deere wiring harness on the right side of the engine down in the engine compartment. Within the Gray Box, terminal B should have 12v power at all times. Check fuses if not.

The fault code received if a T-630 sensor shuts down the engine is: SPN 970 – FMI 31 – Auxiliary Engine Shutdown Switch Active. Three functions on the T-630 will give this code:

1) The E-Stop
2) Low water (radiator) level sensor
3) Low Hydraulic level sensor

All other codes are originated from John Deere and your nearest John Dealer is the best resource for trouble shooting.

In the event of an ECU shut down, re-set the ECU by turning the key off for 20 seconds after recording fault codes or the engine will not re-start.

Frequently asked questions:

Symptom:	**Check:**
Diagnostic Gauge lights do not come on when switch is turned on	Check in-line fuses in John Deere Wiring Harness. (right side of engine, low in compartment)
No power on terminal B of Gray Box	Check in-line fuses in John Deere Wiring Harness. (right side of engine, low in compartment)
Engine Diagnostic lights, but engine does not even try to start (starter does not engage at all)	Refer to flow chart
Engine starts and runs for about 30 seconds, but then quits.	Refer to flow chart
Engine tries to shut down when turning left	Water low in radiator or overflow bottle is empty. Must be water in overflow bottle.
Engine tries to shut down going straight over bumpy surface	Probably low Hydraulic level.
Engine start and runs for 30 seconds with E-Stop in.	This is normal.

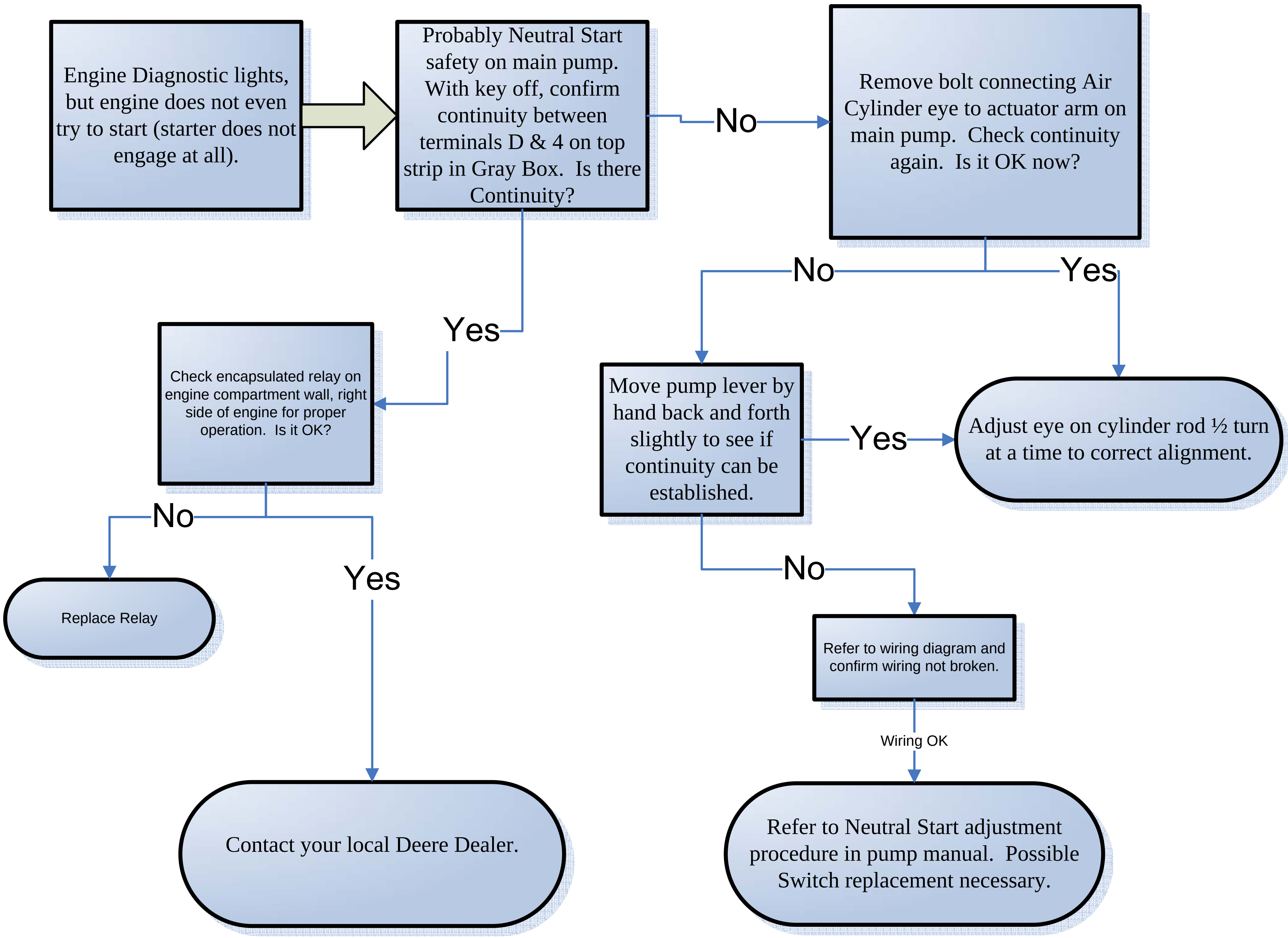
Tuckerbilt T-630 Electronic Engine Controls wiring: Gray junction box to John Deere Harness.

23 Pin Connector (lower of the 2 connectors from the Gray Box to JD harness)					
Pin	Circuit No.	Color	Wire Gauge	Description	Comments
A	n/a			Not used	
B	n/a			Not used	
C	n/a			Not used	
D	n/a			Not used	
E	n/a			Not used	
F	n/a			Not used	
G	n/a			Not used	
H	n/a			Not used	
J	n/a			Not used	
K	941	Brown	16	External shutdown input	Input from T-630 Auxiliary functions to the John Deere ECU to shut down. 3 functions on the T-630 complete this circuit. Low Water Level – is water in the overflow bottle? This can be unplugged to test. Low Hydraulic Level – disconnect K or Q of the oil sensor leads on the bottom terminal strip to test. The E-Stop – disconnect either wire on the E-Stop Contact to test. All T-630 Auxiliary signals can be removed from the circuit temporarily for testing by disconnecting the 23 pin connector. (it is the lower of the two connectors)
L	n/a			Not used	
M	n/a			Not used	
N	n/a			Not used	
O	n/a			Not used	
P	n/a			Not used	
Q	012	Red	16	Switched Power (12v)	Only active when switch is on. Power connection for the External Shutdown (Pin K) circuits.
R	n/a			Not used	
S	n/a			Not used	
T	n/a			Not used	
U	n/a			Not used	
V	n/a			Not used	
W	n/a			Not used	
X	050	Black	16	System Ground	General system ground. Not for sensor return.

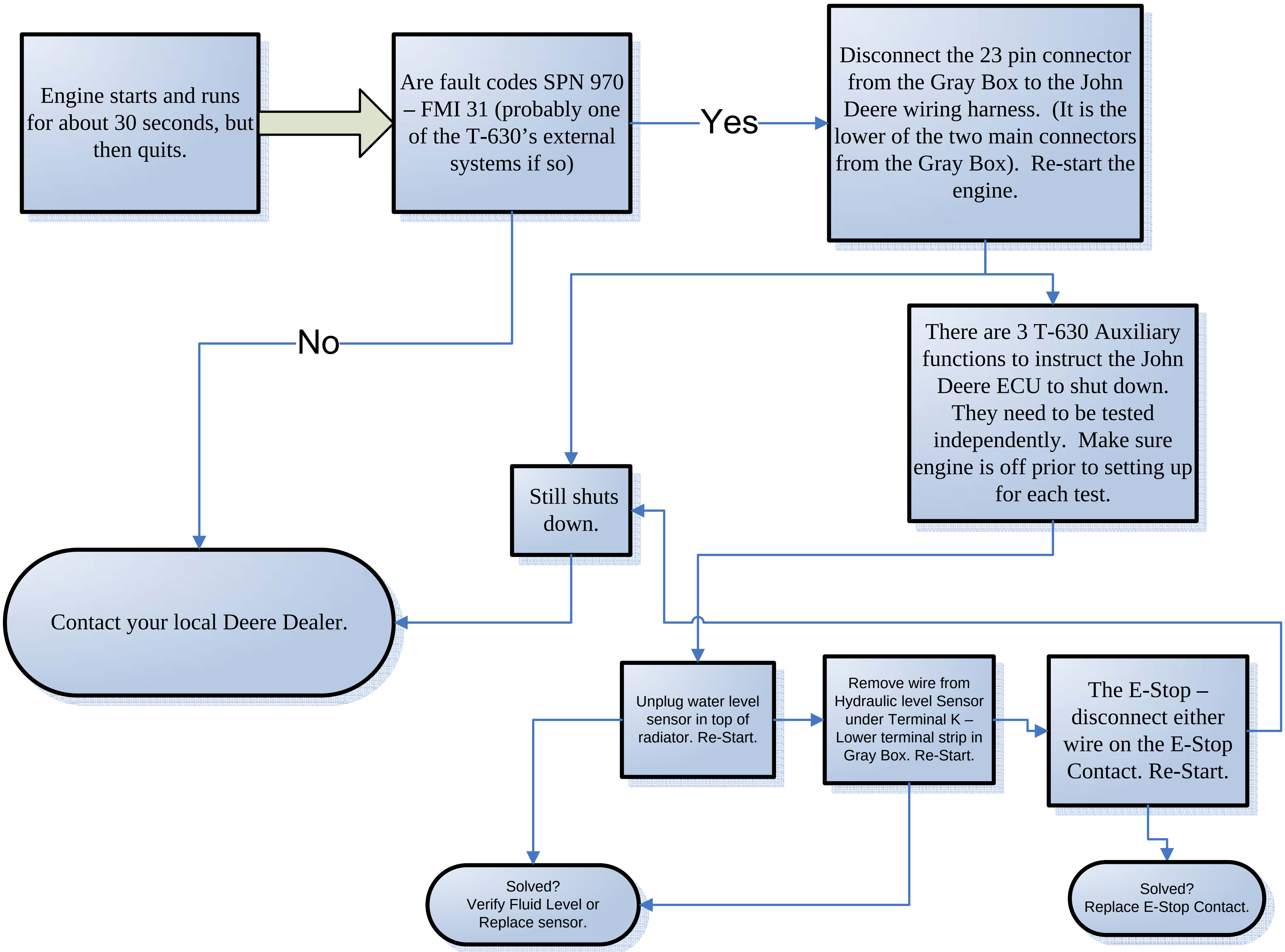
Tuckerbilt T-630 Electronic Engine Controls wiring: Gray junction box to John Deere Harness.

21 Pin Connector (upper of the 2 connectors from the Gray Box to JD harness)						
Pin	Circuit No.		Color	Wire Gauge	Description	Comments
	Std.	Ext.				
A	n/a				Not used	
B	022	032	Red	12	Fused Un-switched Battery Power	To "B" terminal of gray box. In-Line Fuse in JD harness hanging low.
C	n/a				Not used	
D	422	422	Red	12	Starter Relay	To "Start Button". When start button pushed, 12v must flow through terminal 4, through Neutral Start on Pump to Terminal D into ECU harness.
E	050	050	Black	18	Ground	Grounded on the engine side of the battery.
F	020	020	Black	18	CAN Shield	To any CAN connectors including the diagnostic gauge.
G	012	012	Red	12	Battery Power to ECU (Switched)	Wired to the "Ignition" terminal of the Key Switch.
H	n/a				Not used	
J	412	412	Red	18	Alternator ignition	Under terminal "G" (Switched Power)
K	n/a				Not used	
L	n/a				Not used	
M	n/a				Not used	
N	n/a				Not used	
O	n/a				Not used	
P	n/a				Not used	
R	947	947	Violet	18	Throttle Switch	Throttle common
S	914	914	Yellow	18	Sensor Return	Throttle Sensor Return
T	Plug	936	Blue	18	Bump Speed Down	Not currently used
U	905	905	Green	18	CAN Low	Diagnostic Gauge
V	904	904	Yellow	18	CAN High	Diagnostic Gauge
W	Plug	955	Green	18	Bump Speed Up	Not currently used
X	Plug	923	Orange	18	Bump Enable	Not currently used

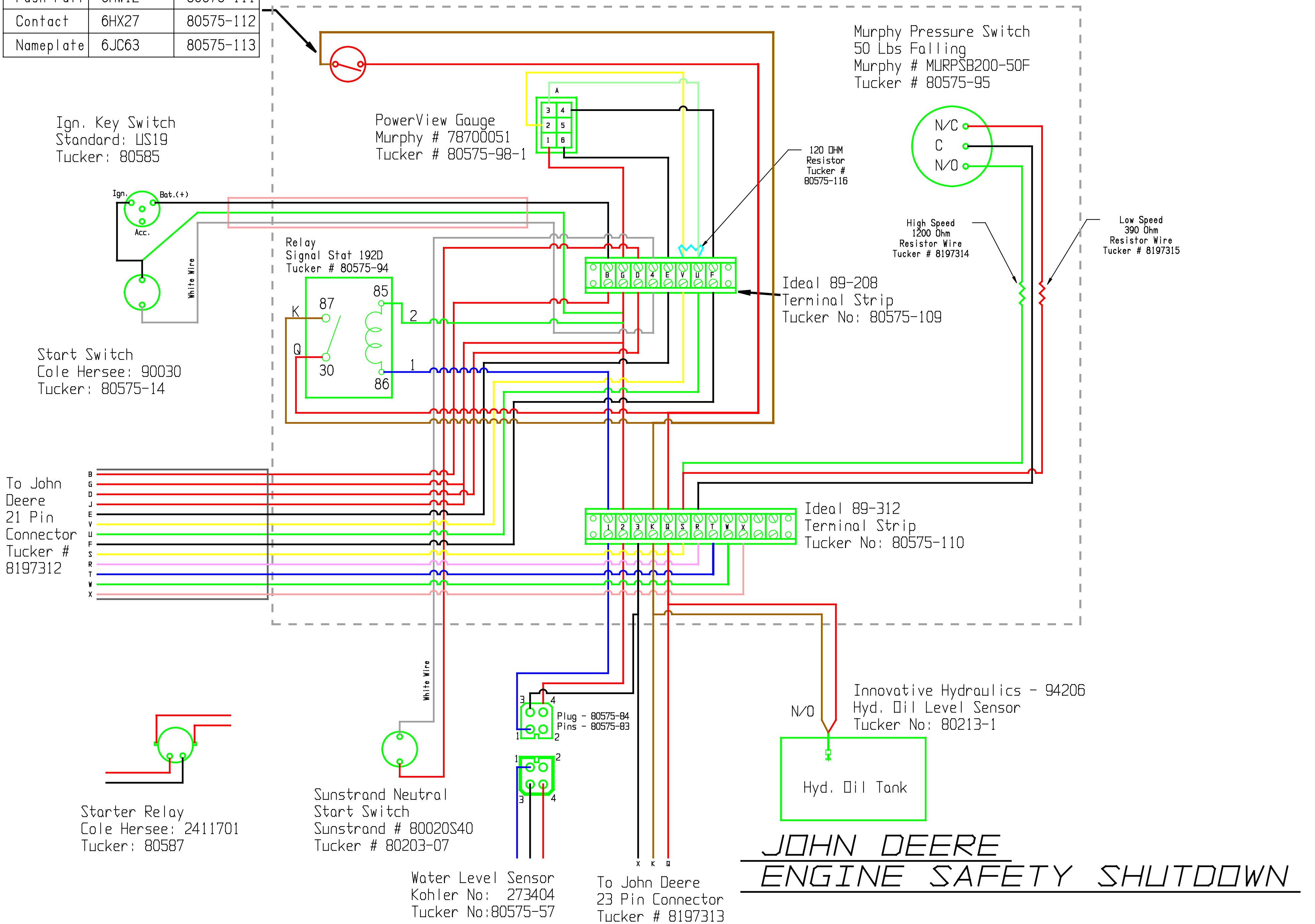
T-630 John Deere Engine with ECU Trouble Shooting



T-630 John Deere Engine with ECU Trouble Shooting



E-Stop	Grainger	Tucker #
Push-Pull	6HW12	80575-111
Contact	6HX27	80575-112
Nameplate	6JC63	80575-113

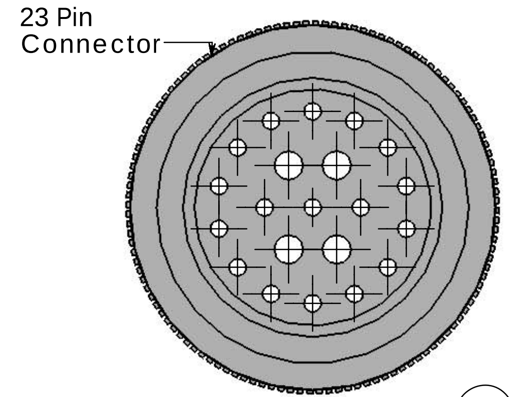


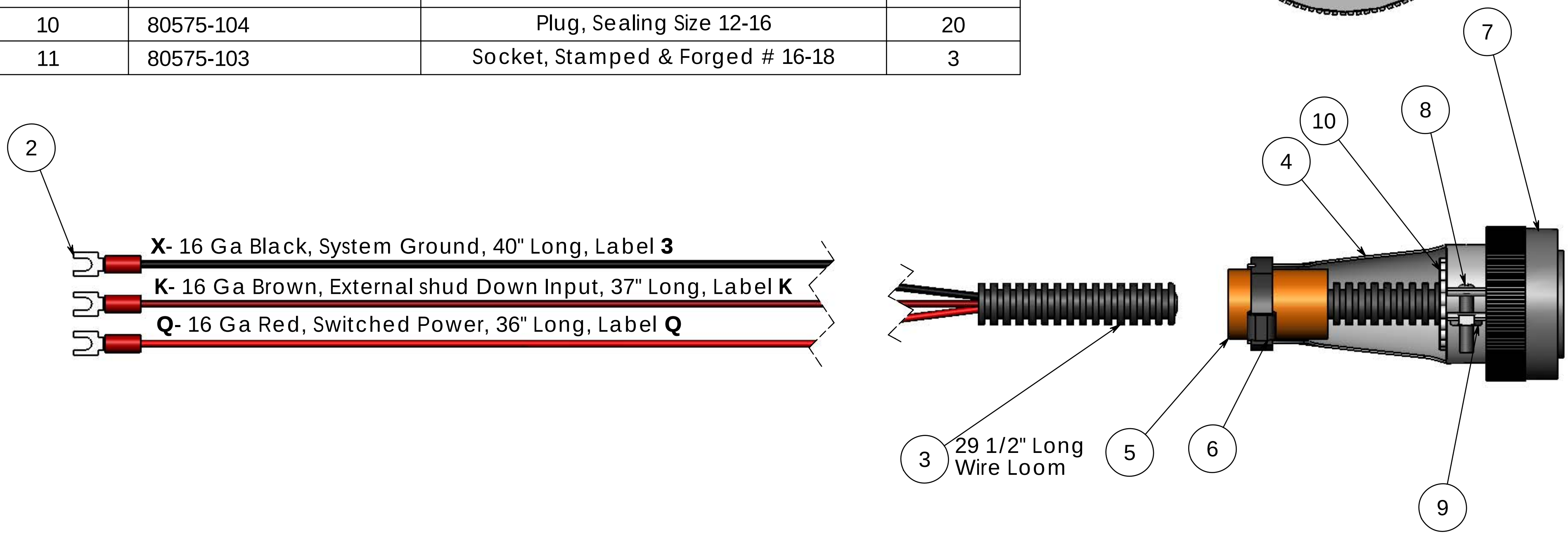
JOHN DEERE
ENGINE SAFETY SHUTDOWN

Starting Serial No: 04272

103587
PowerView Layout

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8197313	Wire, T-630 JD4045T 23 Pin ECU	1
2	E122	Terminal Vi Spade (8-st) 22-16	3
3	E784	Loom Wire 13/32	1
4	80575-114	Ladd Strain Relief Shell Size 24	1
5	38RH	38" Red Rubber hose	1
6	TY-570	Tie Wrap	1
7	80575-101	Plastic Plug, 23 Pin	1
8	832-34RHMS	Screw Rh Mach. 8-32x 3/4	1
9	832SLN	Nut Self-lock 8-32	1
10	80575-104	Plug, Sealing Size 12-16	20
11	80575-103	Socket, Stamped & Forged # 16-18	3



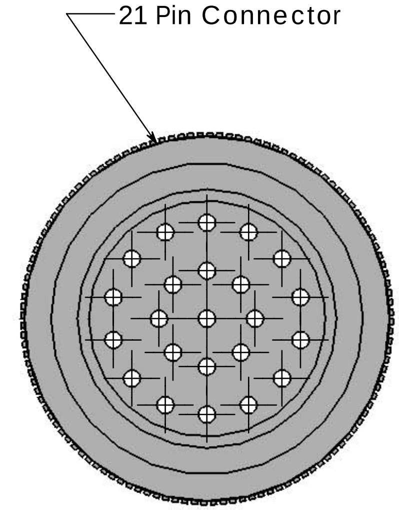


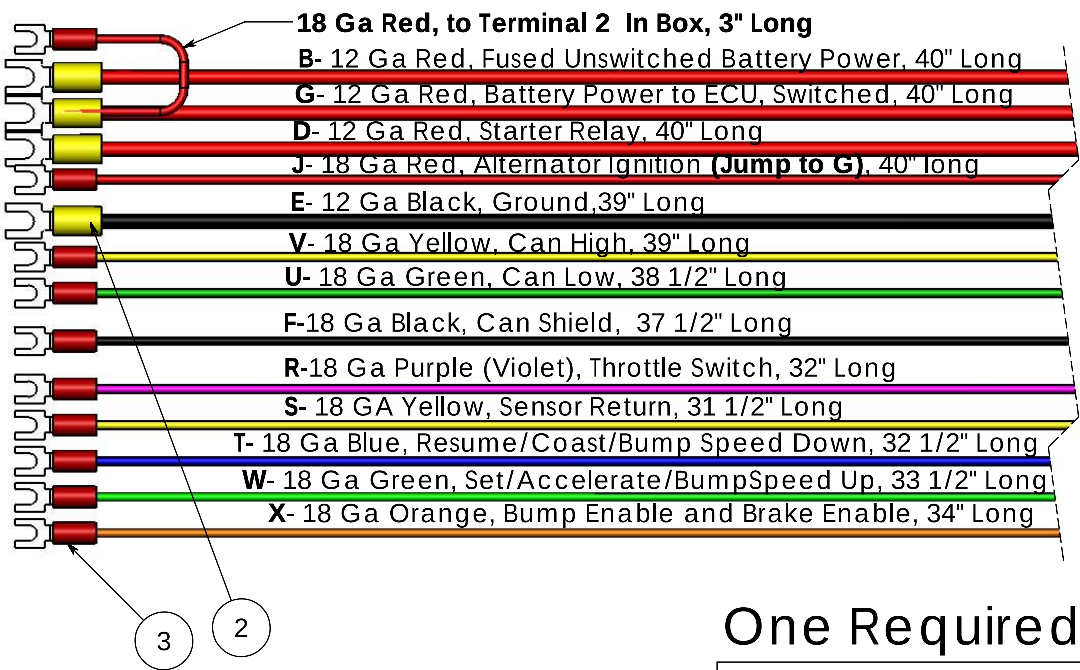
One Required Per Unit

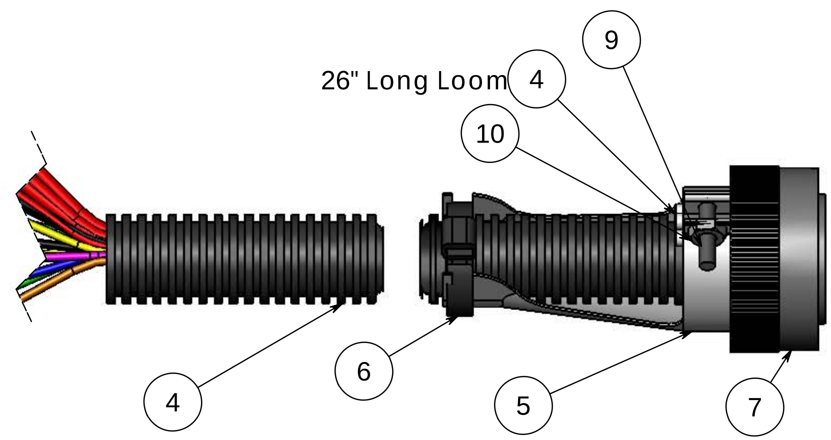
8197313	DR. BY few
T-630	DATE 5/4/2006
Wire, T-630 JD4045T 23 Pin ECU	SCALE: HALF **8197313**

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8197312	Wire, T-630 JD4045T 21 Pin ECU	1
2	E153	Terminal Vi Spade 10 Stud 10-12	4
3	E122	Terminal Vi Spade (8-st) 22-16	10
4	E785	Loom Wire 3/4	1
5	80575-114	Ladd Strain Relief Shell Size 24	1
6	TY-570	Tie Wrap	1
7	80575-100	Plastic Plug, 21 Pin	1
8	80575-104	Plug, Sealing Size 12-16	9
9	832-34RHMS	Screw Rh Mach. 8-32x 3/4	1
10	832SLN	Nut Self-lock 8-32	1
11	80575-102	Socket, Stamped & Forged # 12	3
12	80575-103	Socket, Stamped & Forged # 16-18	9



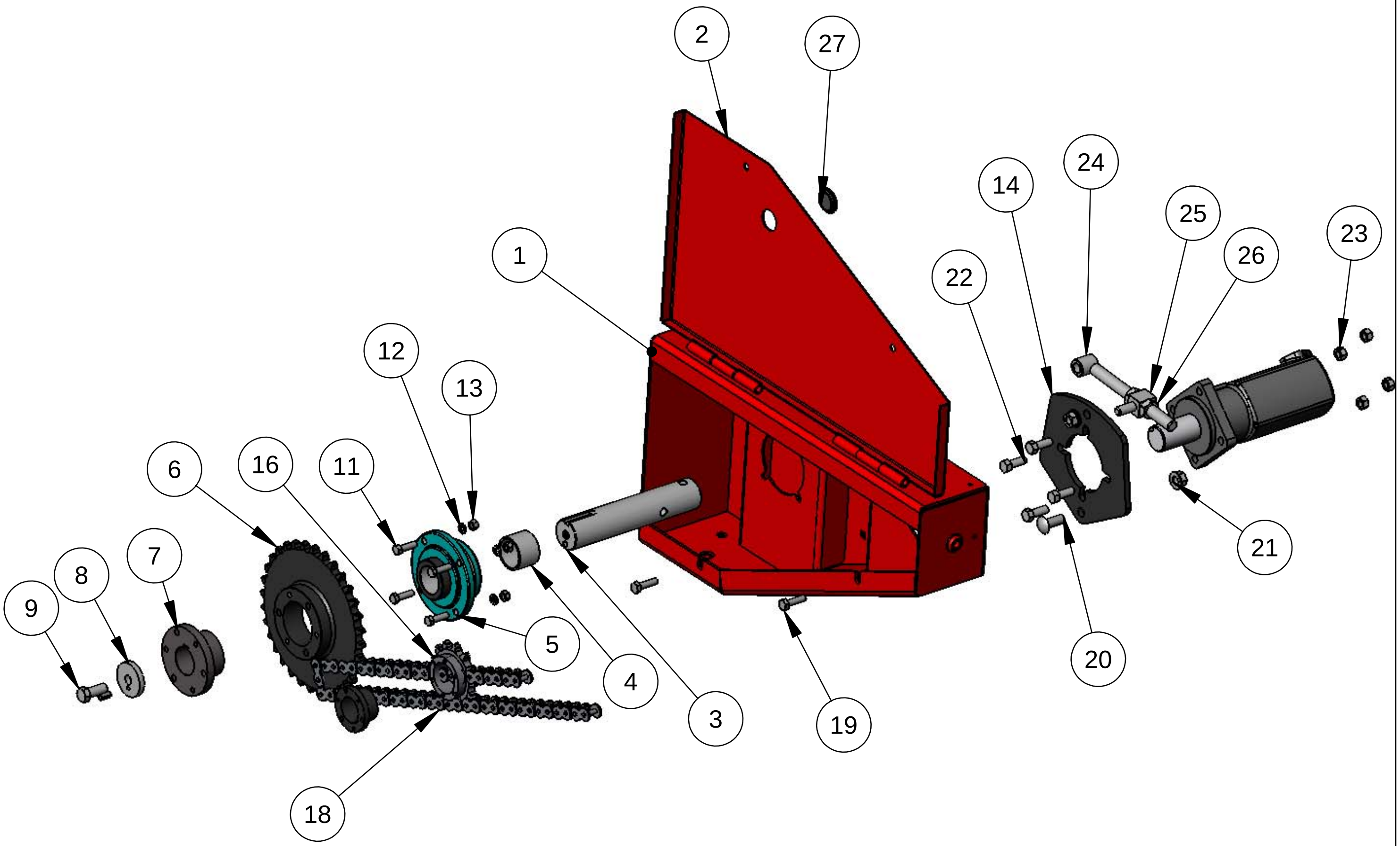




One Required Per Unit

8197312	DR. BY few
T-630	DATE 5/4/2006
Wire, T-630 JD4045T 21 Pin ECU	SCALE: HALF
	8197312

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810



FRONT AUGER DRIVE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81977-1	Front Auger Drive Housing Assy	1
2	81977-2	Front Auger Drive Cover Assy	1
3	81977-3	Front Drive Auger Drive Shaft	1
4	81977-4	Front Drive Shaft Spacer	1
5	80305	Bearing Auger	1
6	80405A	Sprocket Auger Shaft	1
7	80405B	Bushing Auger Shaft Spr.	1
8	81029	Washer Idler Shaft	1
9	34-2CS	Screw Cap .75 X 2	1
10	12-1TP	Pin Tension 1/2 X 1	1
11	12-134CS	Screw Cap .5 X 1.75	4
12	LW 0.5	Washer Lock .5	4
13	12N	1/2-13 Hex Nut	4
14	81459	Plate Auger Motor Mount	1
15	80102	Motor Auger	1
16	80404A	Sprocket Auger Motor	1
17	80404B	Bushing Auger Mtr. Spr.	1
18	81807	Chain Kit Auger (28 Links #100)	1
19	12-2FTB	Fast Thread Bolt .5 X 2	2
20	34-2CB	Carriage Bolt 3/4 X 2	1
21	34FN	Nut Flanged L. 3/4-10	2
22	58-134CS8F	Screw Cap 5/8 x 1 3/4 GR 8 Fine	4
23	58SLN	Nut Self-lock .625	4
24	81977-6	Front Drive Motor Adj Bolt Assy	1
25	81977-7	Front Auger Drive Motor Adj Block	1
26	1JN	1-8 Nit Jam Nc 1	2
27	80216	Plug Auger Chain Insp.	1

BUSHING INSTALLATION INSTRUCTIONS

IMPORTANT: DO NOT USE LUBRICANTS IN THIS INSTALLATION

TO INSTALL BUSHING:

1. Remove all paint, oil, grease, etc. from tapered surface of bushing and bore of mating parts.

2. If bushing has a keyway, install shaft key. (If a rectangular key is required, one will be furnished with the bushing.)

3. Select **Standard** or **Reverse** mounting assembly. See Figures 1 and 2.

Note: If bushing does not slide on shaft freely, wedge a screwdriver blade into the saw cut at the Flange OD to open the bore of the bushing. Caution: Excessive wedging will split the bushing.

4. **Standard Mount** – Slide bushing on shaft, flange first. If using the setscrew, gently snug it against the key. **DO NOT TIGHTEN SET SCREW TIGHT YET, Excessive Torque will cause mating part to be eccentric**. Position mating part in place on bushing Aligning drilled holes in mating part with tapped holes in bushing flange. Using lockwashers, install capscrews thru the mating hub and into the bushing flange. (**Note:** M thru S bushings can only be Standard Mounted. Be sure the two tapped holes in the mating hub **do not** align near the bushing saw cut. If they Do, rotate the bushing 90 degrees).

5. **Reverse Mount** – Place mating part over and onto shaft as far as possible with large bore end of taper outward . Slide bushing onto shaft so tapered end will engage into the mating part. If using the setscrew, gently snug it against the key. **DO NOT TIGHTEN SET SCREW TIGHT YET, Excessive Torque will cause mating part to be eccentric**. Align drilled holes in bushing flange with tapped holes in mating part. Using lockwashers, install the capscrews thru the bushing flange and into the mating hub.

6. **Use a Torque Wrench.** Tighten all capscrews evenly and progressively in rotation to the torque value listed in the table. **Excessive wrench torque, closing the gap between the bushing flange and mating hub, or the use of lubricants will break the mating hub.**

To Remove Bushing:

1. Loosen and remove all capscrews.

2. For **Standard Mount,** thread capscrews into tapped holes in mating part to jack against bushing flange. For **Reverse Mount,** thread capscrews into tapped holes in bushing flange to jack against mating hub. Tighten bolts evenly and progressively in rotation to separate the two components.

3. Loosen setscrew to slide bushing from shaft.

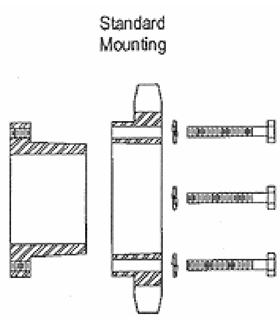


Fig. 1

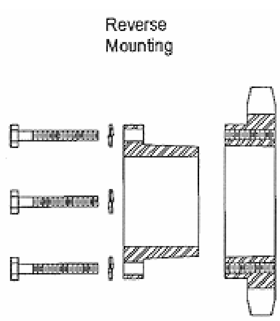
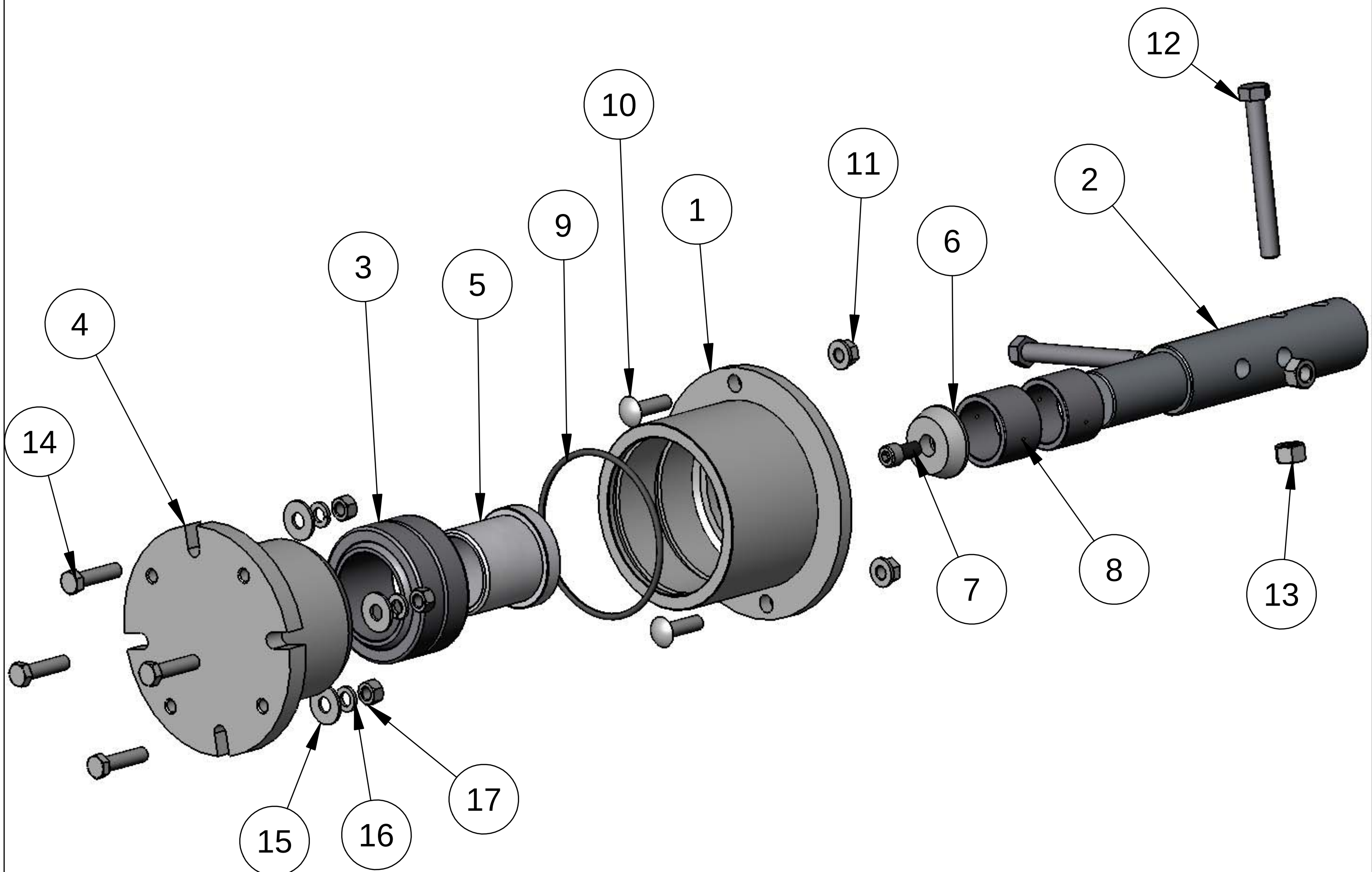


Fig. 2

Screw Tightening Information		
Tapered Bushing	Size & Thread of Capscrew	Ft.-Lbs. To Apply With Torque Wrench
SK	5/16-18	15 (180 in.)
E	½-13	60

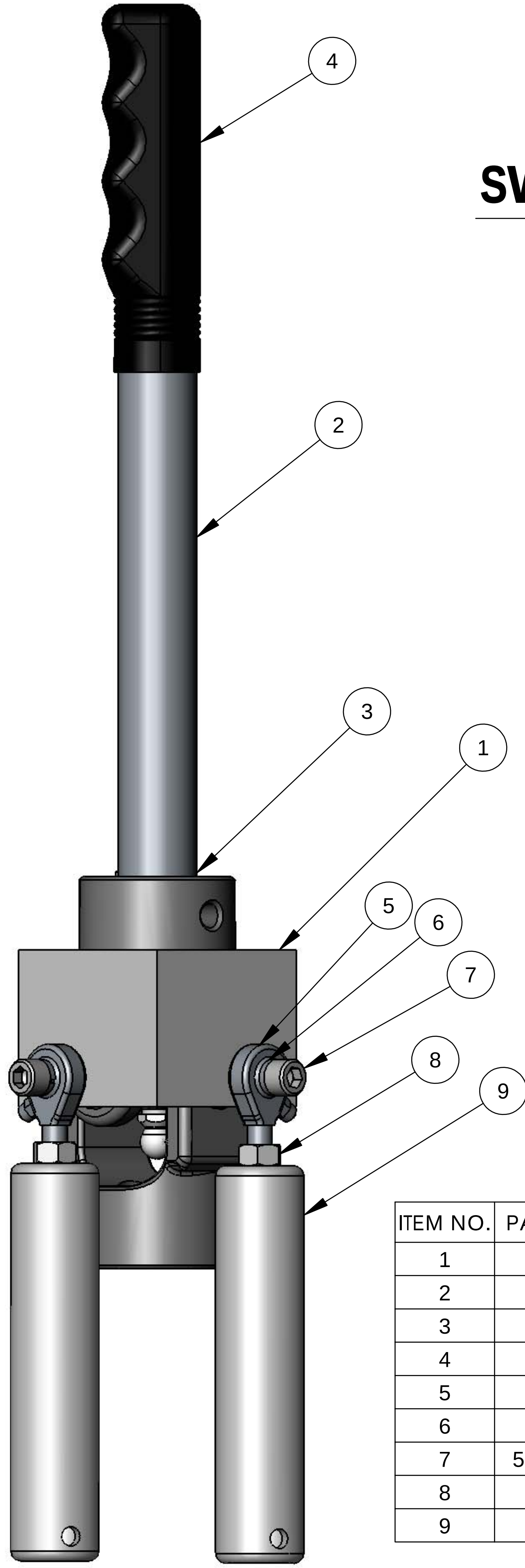


FRONT DRIVE REAR BEARING HOUSING KIT

81977-12M

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81977-8	Front Drive - Rear O-Ring Housing	1
2	81977-9	Front Drive - Rear Idler Shaft	1
3	80312	Rear Auger Seal - Bearing	1
4	81977-11	Front Drive - Rear Bearing Housing	1
5	80313	Rear Auger Seal - Composite Brg	1
6	81977-10	Front Drive - Rear Idler Shaft Bullet	1
7	12-1SHCS	Screw Socket Cap 1/2 X 1	1
8	80311	Rear Auger Seal - Inner Ring	2
9	568-357	O-ring 568-357	1
10	12-134CB	Bolt Carr. 1/2" X 1-3/4"	2
11	12FN	Nut Flanged L. 1/2-13	2
12	58-512CS8	Bolts Auger	2
13	58SLN	Nut Self-lock .625	2
14	12-2CS	1/2-13 X 2 Hex Cap Screw	4
15	12FW	Washer Flat .5	4
16	LW 0.5	Washer Lock .5	4
17	12N	1/2-13 Hex Nut	4

SWING LIFT UNIVERSAL

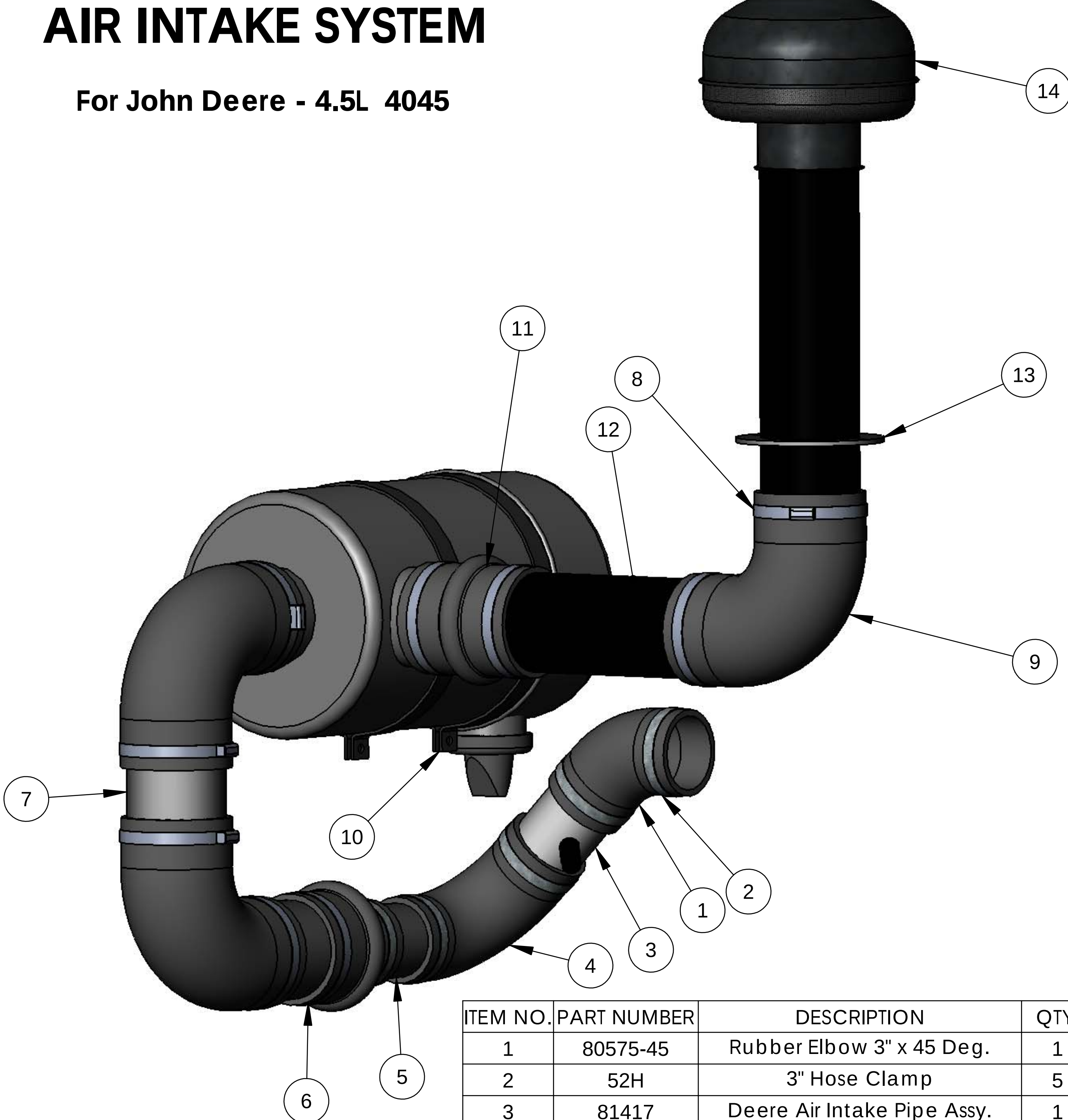


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81615	Universal Assy. Lift-swing	1
2	81616	Handle Lift-Swing	1
3	595-064	Key Woodruff 1/4" X 1"	1
4	80348	Grip Black Rubber	1
5	80506	Tie Rod End For.-Rev. Cyl.	2
6	516HCLW	Lockwasher Hi-Collar 5/16	2
7	516-78SHCSF	Screw Cap SKT SAE 5/16X7/8	2
8	516NF	5/16-24 Nut	2
9	81608	Link Connect Lift-swing	2

81857-1M
few

AIR INTAKE SYSTEM

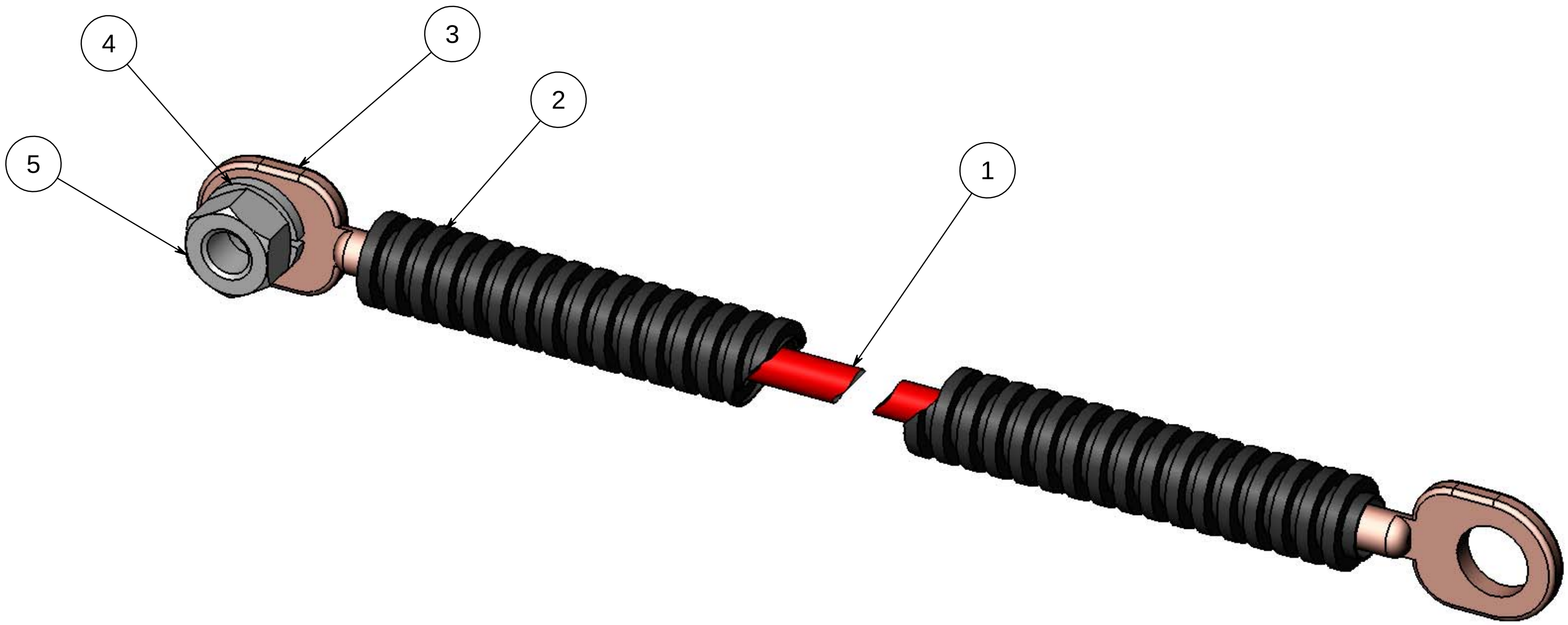
For John Deere - 4.5L 4045



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80575-45	Rubber Elbow 3" x 45 Deg.	1
2	52H	3" Hose Clamp	5
3	81417	Deere Air Intake Pipe Assy.	1
4	80575-46	Rubber Elbow 3" x 90 Deg.	1
5	81416	Deere 3" Air Pipe 4"	1
6	80575-47	Rubber Hump Reducer 4" x 3"	1
7	81415	4" X 4" Intake Pipe	2
8	72H	4" Hose Clamp	9
9	80575-25	Ell (rubber) 90 Deg. 4"	3
10	80575-24	Air Cleaner	1
11	80575-29	4" Straight Hump	1
12	81369	4" X 10" Intake Pipe	1
13	813692	Air Intake Riser Assy.	1
14	80575-22	Hood Air Inlet 4"	1

85080M
few

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E808	Wire Red 8 Ga X 24" Long	1
2	E784	Loom Wire 13/32 X 24" Long	1
3	80653-6	Copper Lug 3/8" Terminal 8Ga Wire	2
4	516LW	Washer Lock .3125	1
5	516SLN	Nut 8-1.25Mm	1



One Required Per Unit

8197318

T-630

DR. BY few

DATE 12/8/2005

MACHINE & STEEL
SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

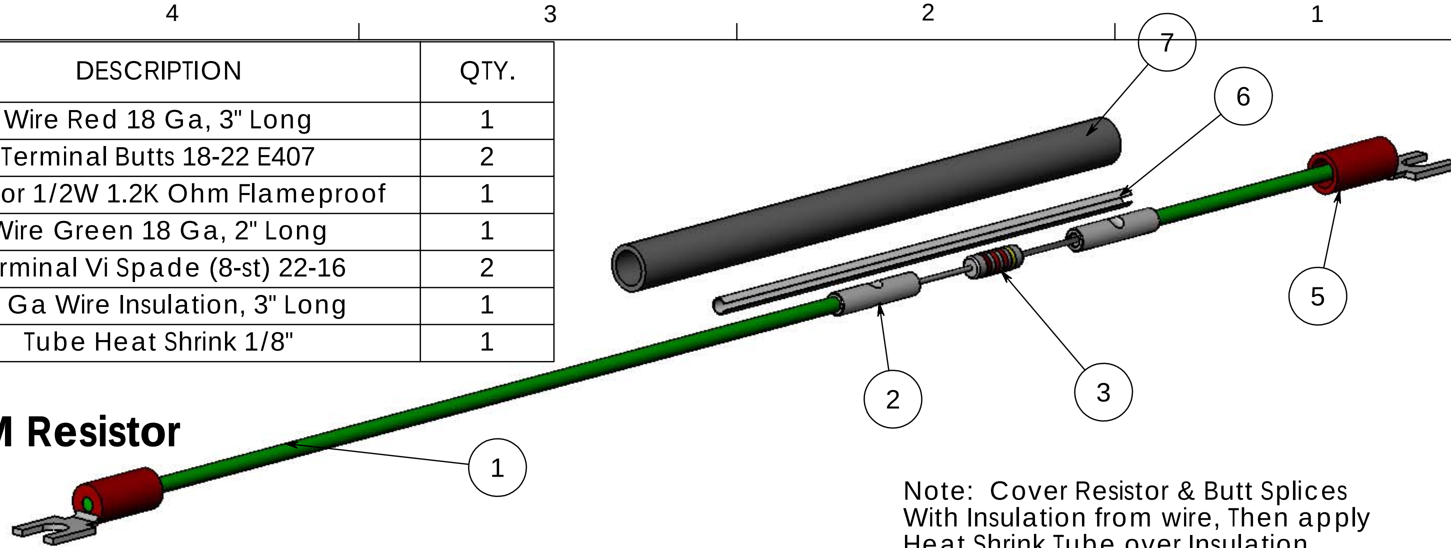
Wire, T-630 Alternator - Battery

SCALE: NONE

8197318

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1805-534	Wire Red 18 Ga, 3" Long	1
2	E407	Terminal Butts 18-22 E407	2
3	80575-117	Resistor 1/2W 1.2K Ohm Flameproof	1
4	E1805-2	Wire Green 18 Ga, 2" Long	1
5	E122	Terminal Vi Spade (8-st) 22-16	2
6	E1800-INS	18 Ga Wire Insulation, 3" Long	1
7	E2918	Tube Heat Shrink 1/8"	1

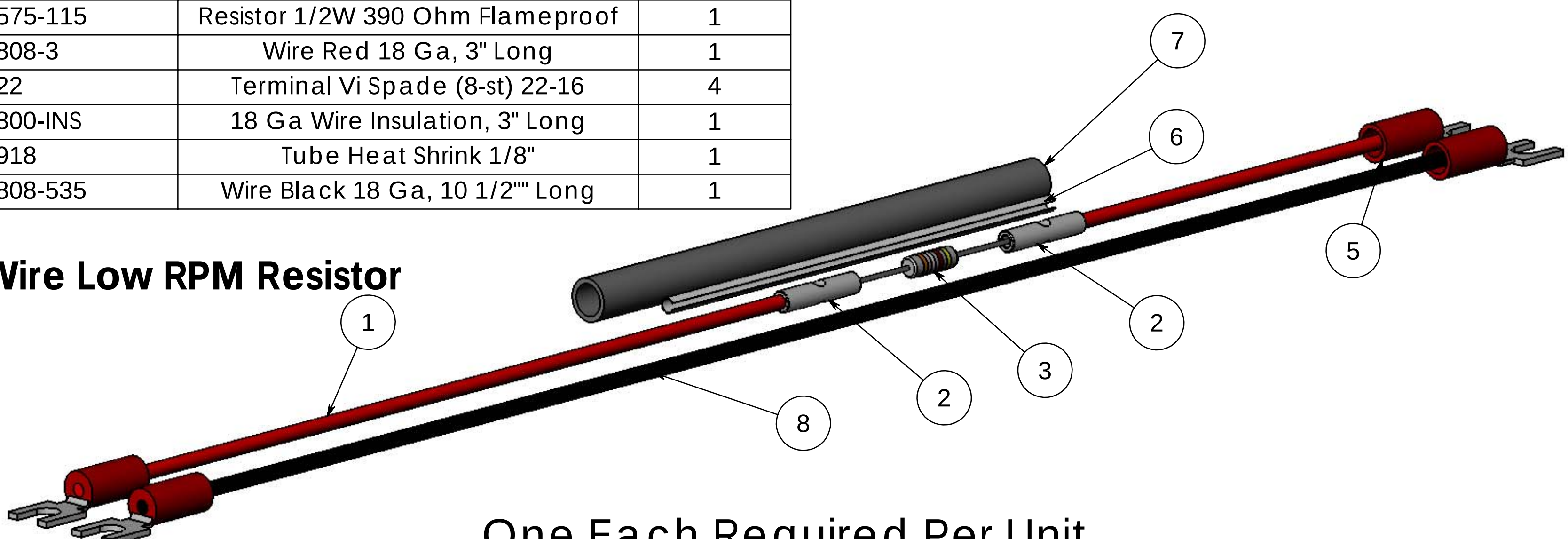
8197314 Wire High RPM Resistor



Note: Cover Resistor & Butt Splices
With Insulation from wire, Then apply
Heat Shrink Tube over Insulation.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1808-534	Wire Black 18 Ga, 3" Long	1
2	E407	Terminal Butts 18-22 E407	2
3	80575-115	Resistor 1/2W 390 Ohm Flameproof	1
4	E1808-3	Wire Red 18 Ga, 3" Long	1
5	E122	Terminal Vi Spade (8-st) 22-16	4
6	E1800-INS	18 Ga Wire Insulation, 3" Long	1
7	E2918	Tube Heat Shrink 1/8"	1
8	E1808-535	Wire Black 18 Ga, 10 1/2"" Long	1

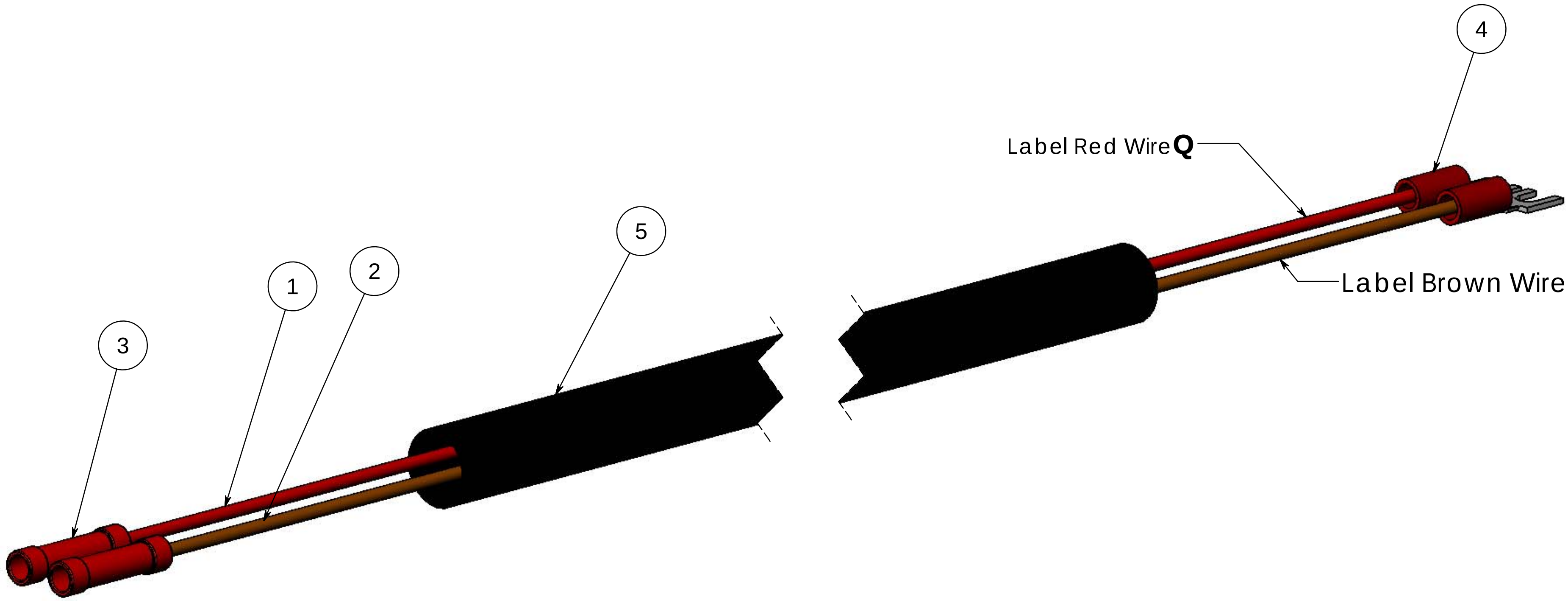
8197315 Wire Low RPM Resistor



One Each Required Per Unit

8197314 & 15 & 8197315		DR. BY few
T-630		DATE 9/12/2005
TUCKER'S MACHINE & STEEL SERVICE INC. P.O. BOX 492810 LEESBURG, FLA. 34749-2810	T-630 Resistor Wires	SCALE: Full
		8197314 & 15

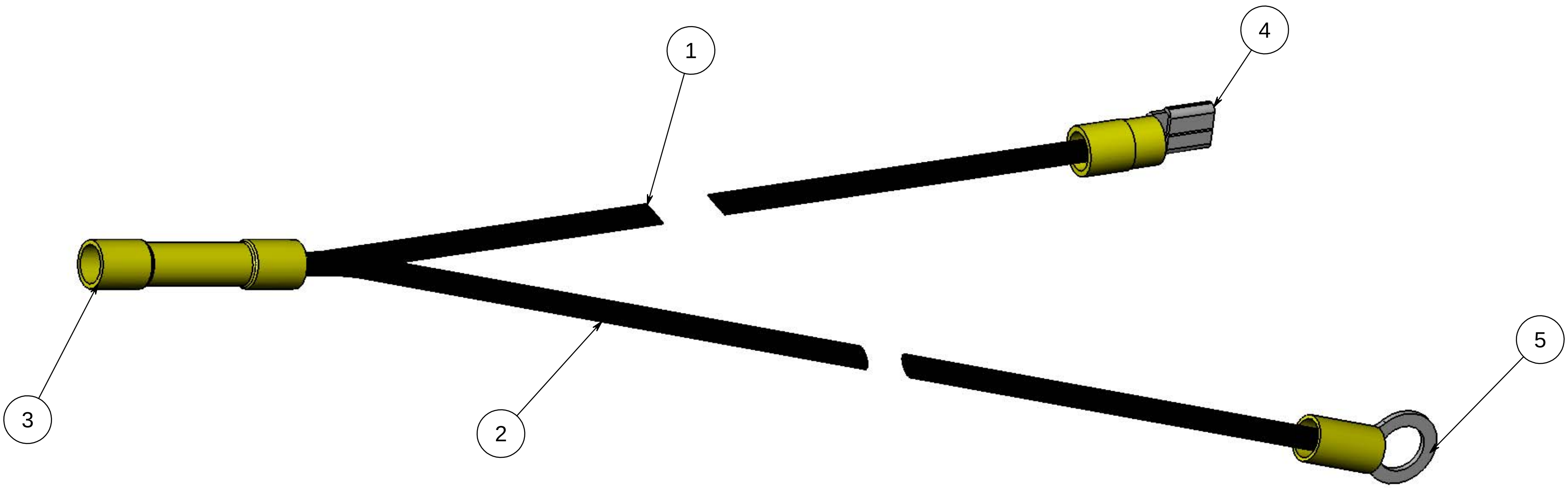
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1808	Wire Brown 18 Ga X 80" Long	1
2	1803	Wire Brown 18 Ga X 80" Long	1
3	E407	Terminal Butts 18-22 E407	2
4	E122	Terminal Vi Spade (8-st) 22-16	2
5	246117	Bw 1/2 Synf. Tube X 71" Long	1



One Assembly Required Per Unit

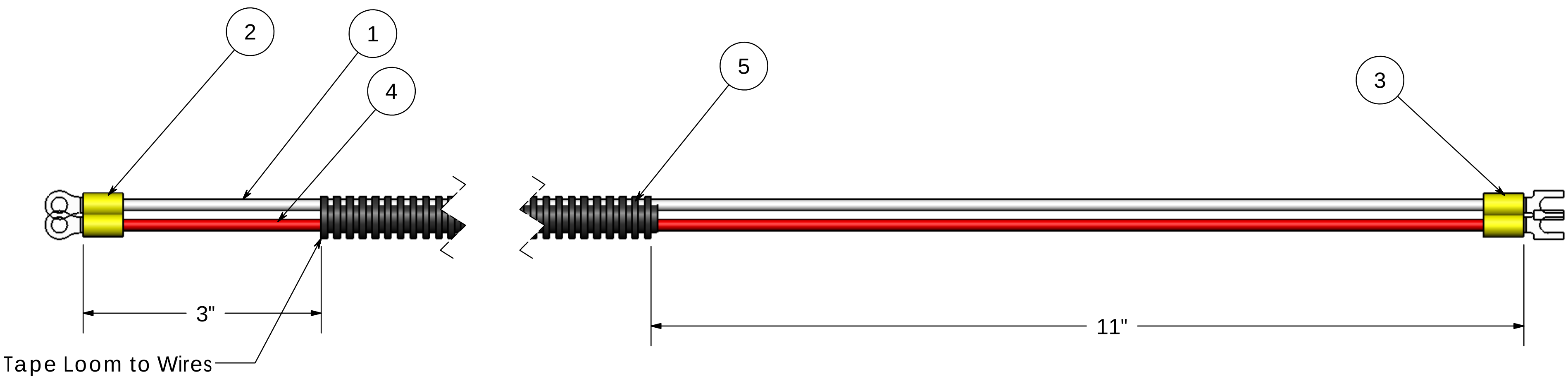
819732		DR. BY	few
T-630		DATE	8/17/2005
TUCKER'S MACHINE & STEEL SERVICE INC. P.O. BOX 492810 LEESBURG, FLA. 34749-2810	Wire, T-630 Hyd Oil Sensor-Elec Box	SCALE:	Full
		819732	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1201-21 Inch	Wire Black 1201 12ga x 21" Long	1
2	E1201-28 Inch	Wire Black 1201 12ga X 28" Long	1
3	E461ST	Terminal Butt W/shrinktube 10-12	1
4	E813	Dct Fm 813 10-12 V-250	1
5	E159	Terminal Vi Ring (5/16 stud) 10-12	1



	819733	DR. BY few
	T-630	DATE 12/9/2005
TUCKER'S MACHINE & STEEL SERVICE INC. P.O. BOX 492810 LEESBURG, FLA. 34749-2810	Wire, T-630 Ground-Elec Box	SCALE: NONE
		819733

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1202-48	Wire-White-12 Ga-48" Long	1
2	E156	Terminal Vi Ring (10 stud) 10-12	2
3	E153	Terminal Vi Spade 10 Stud 10-12	2
4	E1208-48	Wire-Red-12 Ga-48" Long	1
5	E784	Loom Wire 13/32 X 34" Long	1



One Assembly Required per Unit

819734

T-630

DR. BY few

DATE 9/12/2005

MACHINE & STEEL
SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Wire, T-630 Nuetral Start Switch

SCALE: Half

816734

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1201	Wire Black 1201 12 ga X 9" Long	1
2	E156	Terminal Vi Ring (10 stud) 10-12	1
3	E159	Terminal Vi Ring (5/16 stud) 10-12	1



819735

T-630

DR. BY few

DATE 12/9/2005

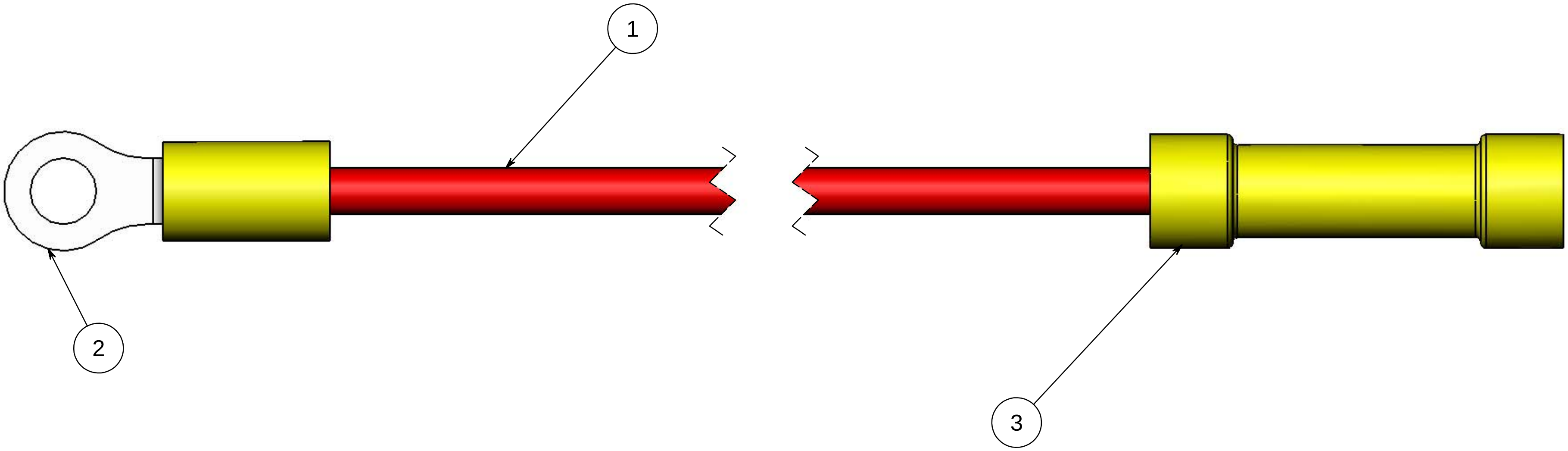
MACHINE & STEEL
SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Wire, T-630 Ground

SCALE: NONE

819735

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	819736	12 Ga. Wire 25" Long Red	1
2	E156	Terminal Vi Ring (10 stud) 10-12	1
3	E161	Terminal Vi Butt Conn. 10-12	1

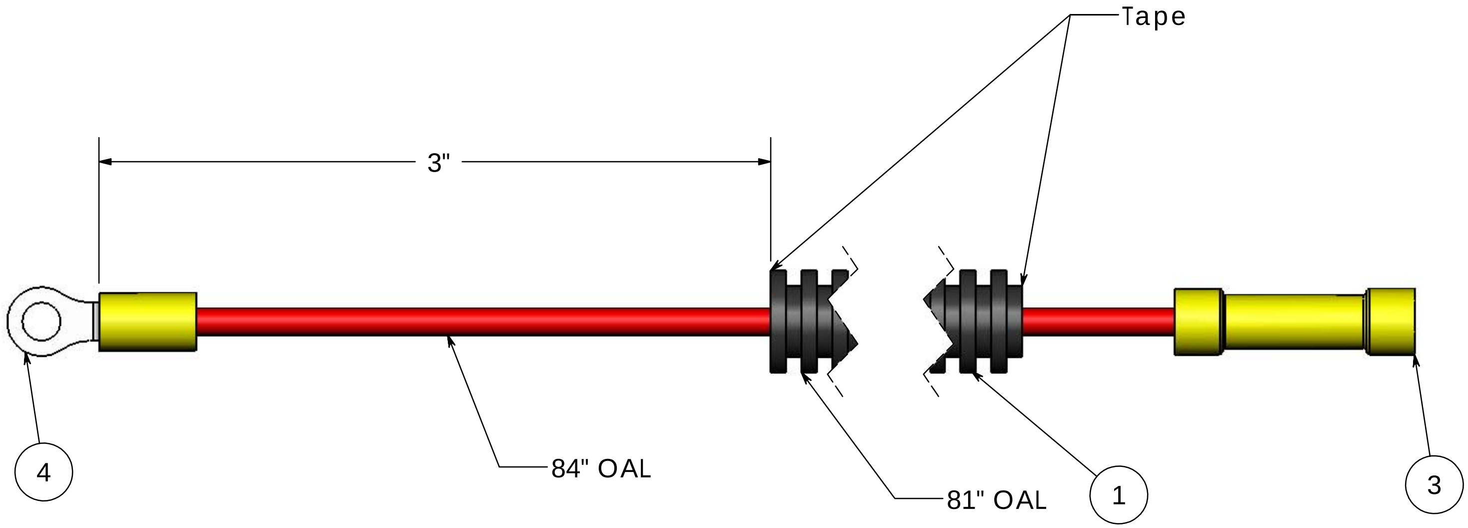


One Required per Unit

819736	DR. BY few
T-630	DATE 10/18/2005
Wire, T-630 Top L. Light-Switch	SCALE: Double
	819736

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E784	Loom Wire 13/32 81" Long	1
2	819737	12 Ga. Wire, 84" Long, Red	1
3	E161	Terminal Vi Butt Conn. 10-12	1
4	E156	Terminal Vi Ring (10 stud) 10-12	1

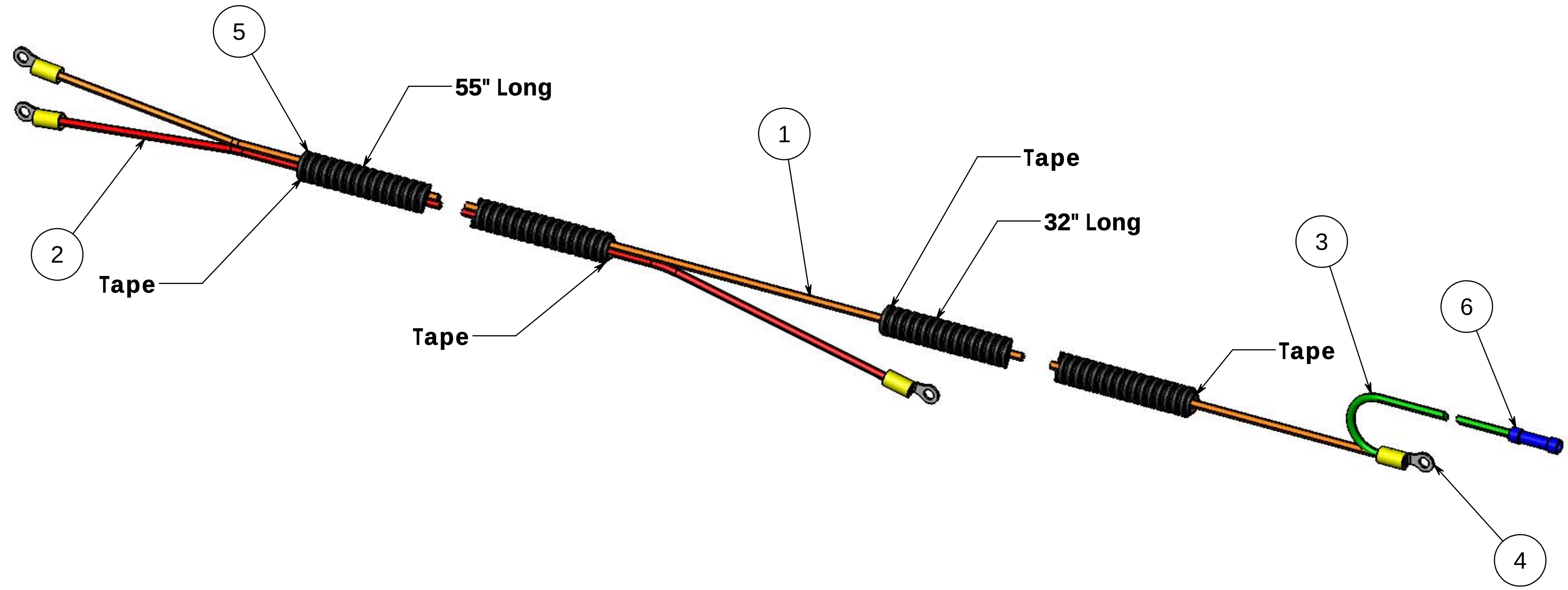


One Required Per Unit

819737	DR. BY few
T-630	DATE 10/18/2005
Wire, T-630 Top R. Light-Switch	SCALE: NONE
	819737

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1206	Wire Orange E1206 12ga x 96" Long	1
2	E1208-65 Inch	Wire Red E1208 12g X 65" Long	1
3	E1408	Wire Green 14 ga X 14" Long	1
4	E156	Terminal Vi Ring (10 stud) 10-12	4
5	E784	Loom Wire 13/32 1 Piece 55", 1 Piece 32"	2
6	E430	Terminal Vi Butt Conn. 14-16	1

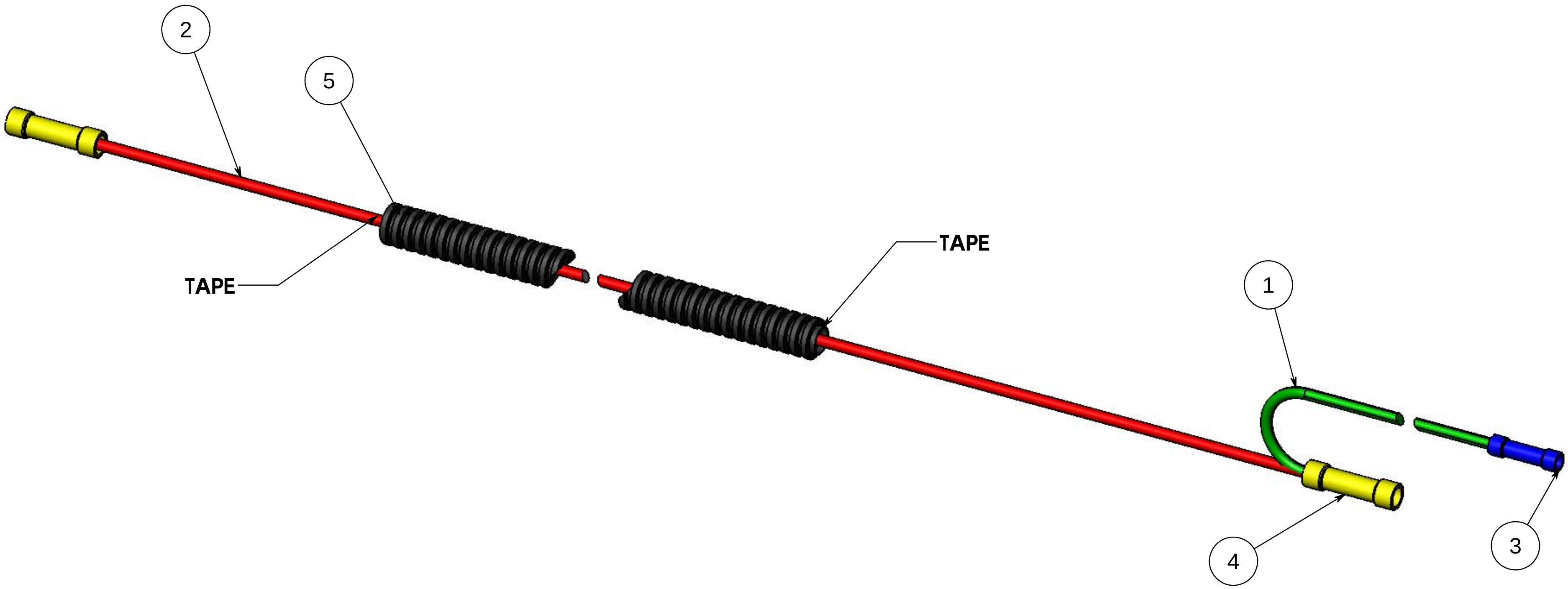


One Required Per Unit

819738	DR. BY few
T-630	DATE 12/9/2005
Wire, T-630 Alarm BU Switch	SCALE: 1:3
	819738

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1408-13 Inch	Wire Green 13 ga X 14" Long	1
2	E1208-198 Inch	Wire Red E1208 12g X 198" Long	1
3	E430	Terminal Vi Butt Conn. 14-16	1
4	E161	Terminal Vi Butt Conn. 10-12	2
5	E784	Loom Wire 13/32 X 188" Long	1



819739

T-630

DR. BY few

DATE 12/9/2005

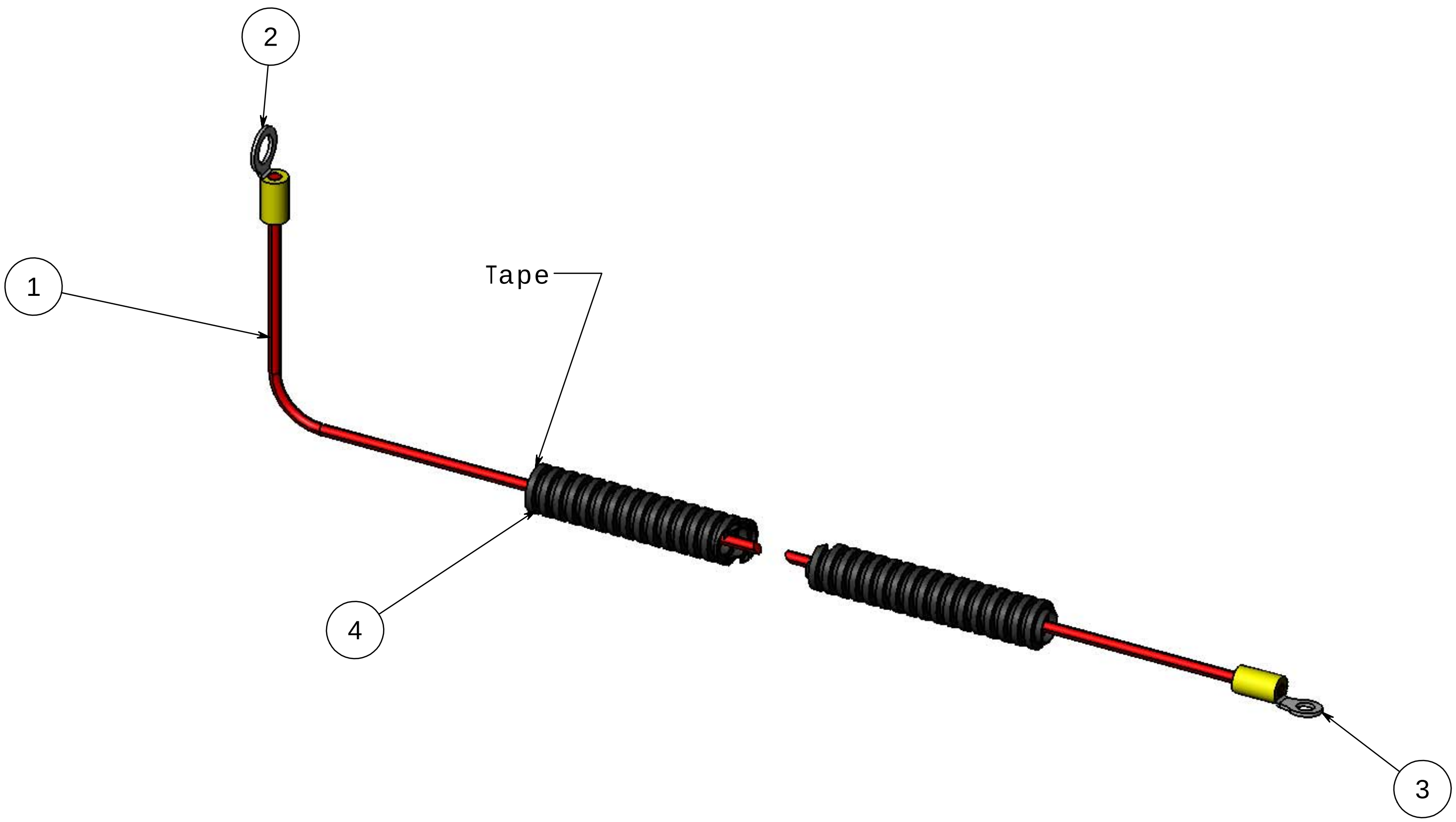
TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Wire, T-630 Lower Light-Dash

SCALE: NONE

819739

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E1208-1	Wire Red E1208 12G X 24" Long	1
2	E158	Terminal Vi Ring (5/16 stud) 10-12	1
3	E156	Terminal Vi Ring (10 stud) 10-12	1
4	E784	Loom Wire 13/32	1



8197310-1

DR. BY few

T-630

DATE 2/14/2006

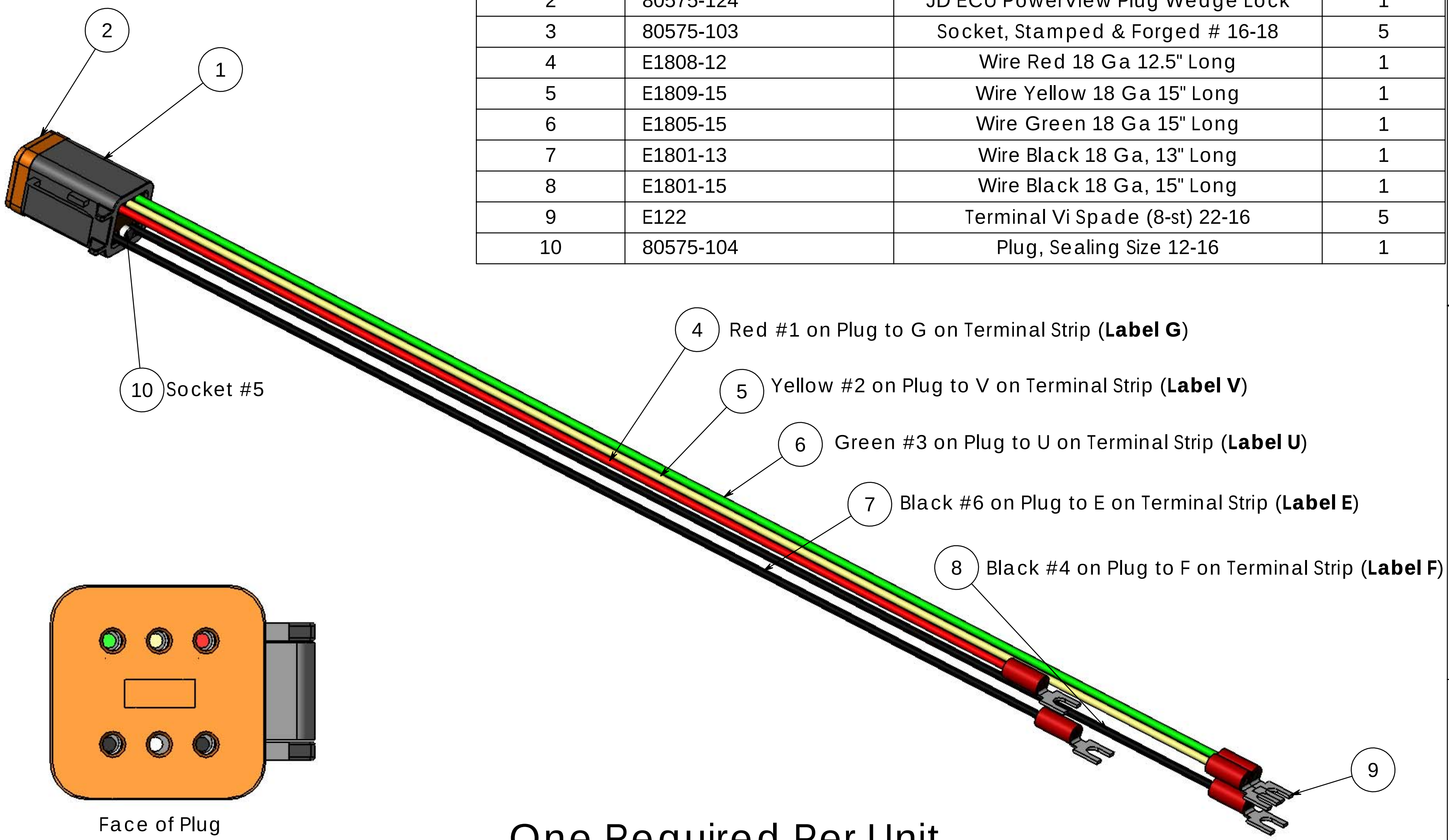
TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Wire Air Dryer T-630 Circuit Breaker to Relay

SCALE: Half

8197310-1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80575-123	JD ECU PowerView Gauge Plug	1
2	80575-124	JD ECU PowerView Plug Wedge Lock	1
3	80575-103	Socket, Stamped & Forged # 16-18	5
4	E1808-12	Wire Red 18 Ga 12.5" Long	1
5	E1809-15	Wire Yellow 18 Ga 15" Long	1
6	E1805-15	Wire Green 18 Ga 15" Long	1
7	E1801-13	Wire Black 18 Ga, 13" Long	1
8	E1801-15	Wire Black 18 Ga, 15" Long	1
9	E122	Terminal Vi Spade (8-st) 22-16	5
10	80575-104	Plug, Sealing Size 12-16	1



Face of Plug

One Required Per Unit

8197316-1

T-630

DR. BY few

DATE 8/16/2005

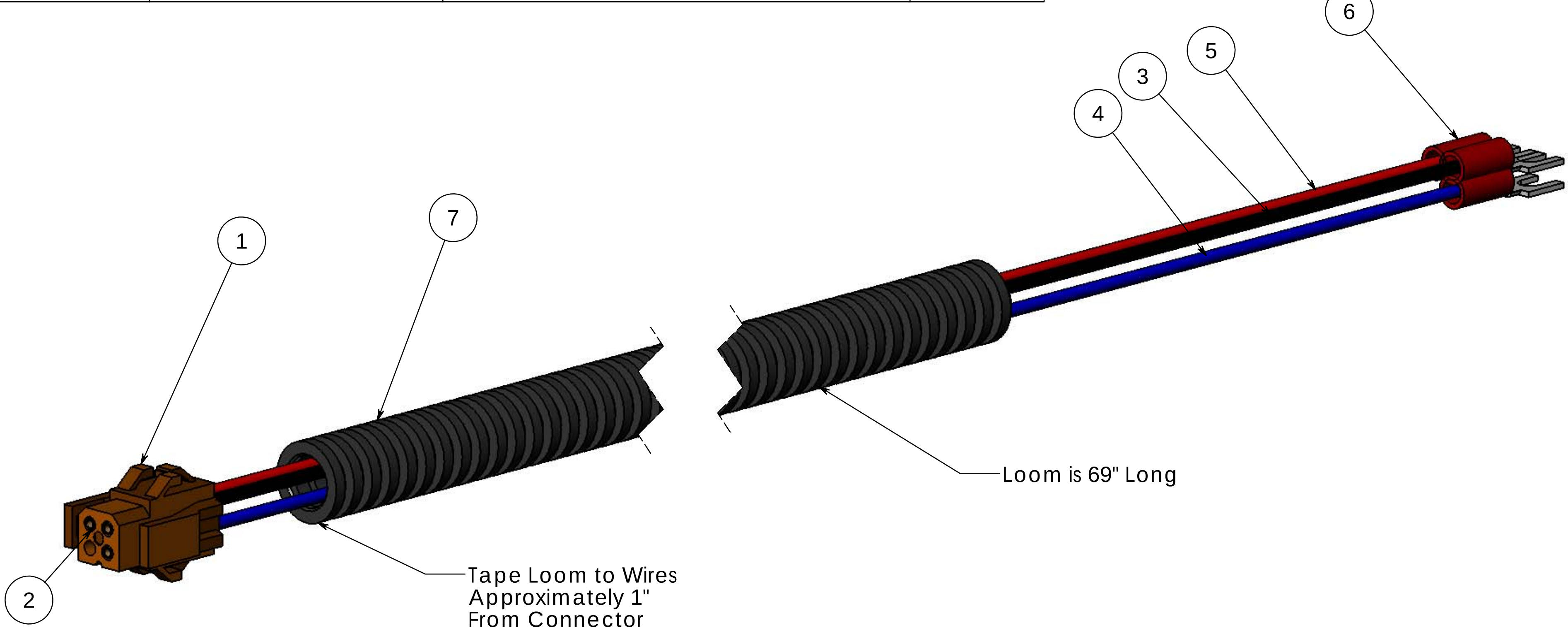
TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

Wire, T-630 ECU PowerView Gauge

SCALE: NONE

8197316-1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80575-84	T-630 Water Level Connector Plug	1
2	80575-83	T-630 Water Level Connector Pin	3
3	1801	Wire Black 18 Ga, 73" Long	1
4	1811	Wire Blue 18 Ga, 73" Long	1
5	1808	Wire Red 18 Ga, 73" Long	1
6	E122	Terminal Vi Spade (8-st) 22-16	3
7	E784	Loom Wire 13/32	1

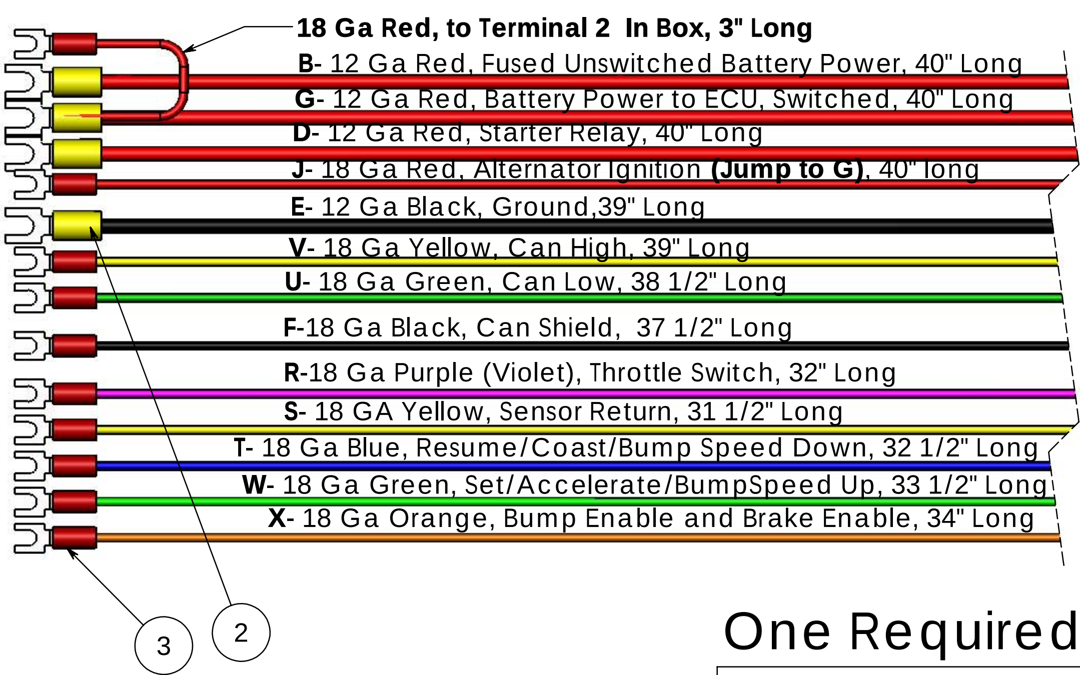


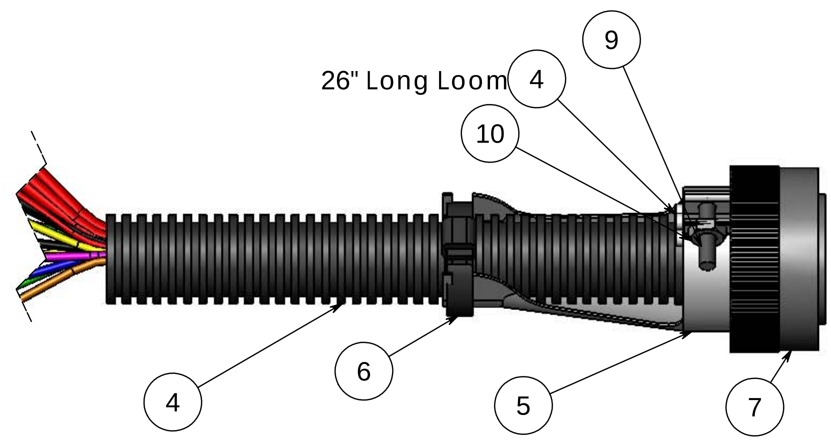
One Assembly Required per Unit

8197317	DR. BY few
T-630	DATE 8/17/2005
Wire, T-630 Low Water Level	SCALE: FULL
	8197317

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8197312	Wire, T-630 JD4045T 21 Pin ECU	1
2	E153	Terminal Vi Spade 10 Stud 10-12	4
3	E122	Terminal Vi Spade (8-st) 22-16	10
4	E785	Loom Wire 3/4	1
5	80575-114	Ladd Strain Relief Shell Size 24	1
6	TY-570	Tie Wrap	1
7	80575-100	Plastic Plug, 21 Pin	1
8	80575-104	Plug, Sealing Size 12-16	9
9	832-34RHMS	Screw Rh Mach. 8-32x 3/4	1
10	832SLN	Nut Self-lock 8-32	1
11	80575-102	Socket, Stamped & Forged # 12	3
12	80575-103	Socket, Stamped & Forged # 16-18	9



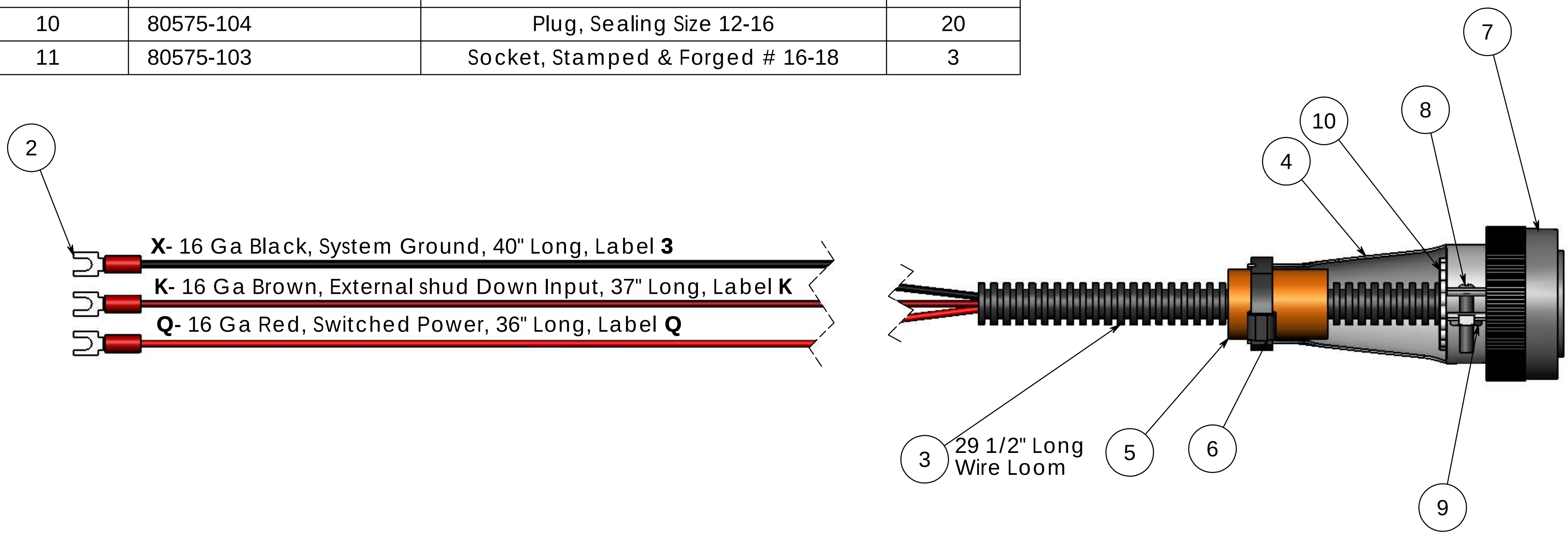


One Required Per Unit

8197312	DR. BY few
T-630	DATE 8/15/2005
Wire, T-630 JD4045T 21 Pin ECU	SCALE: HALF
	8197312

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

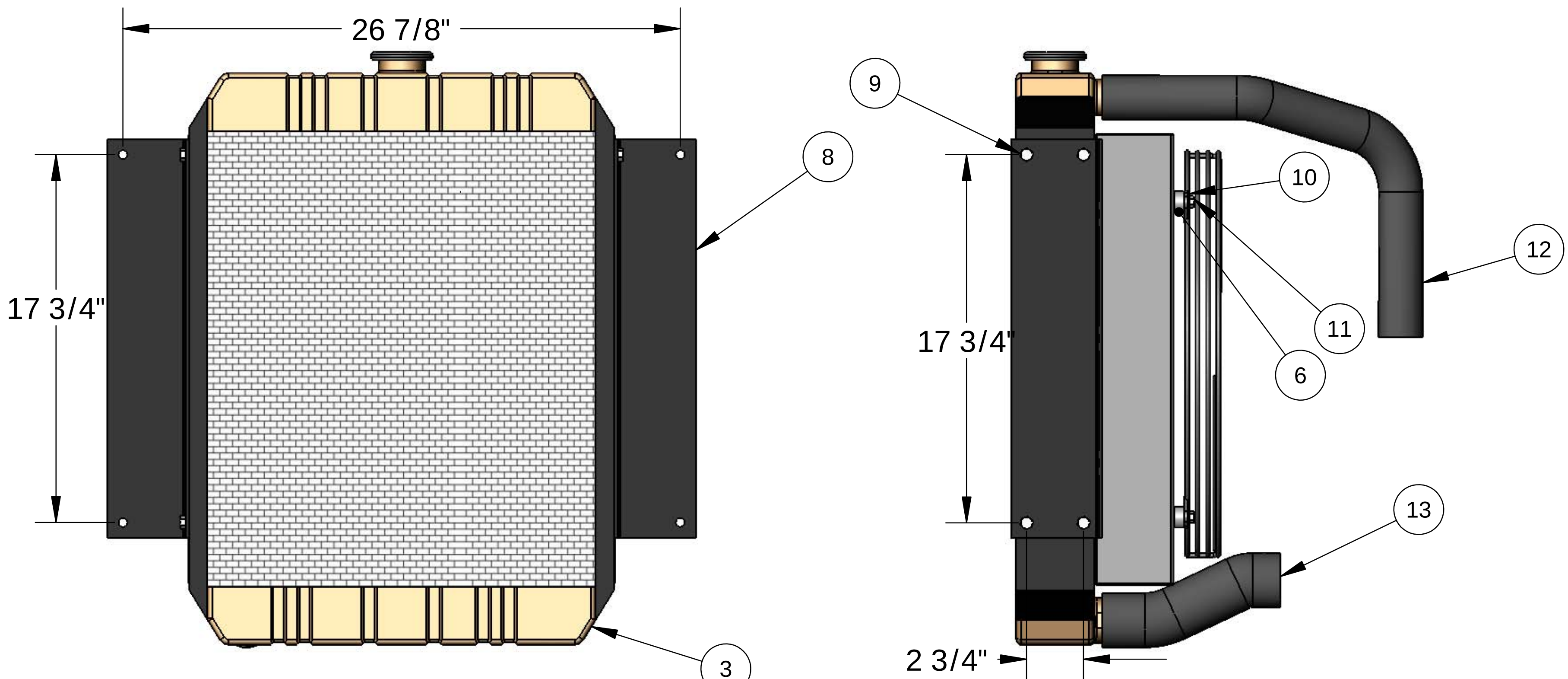
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	8197313	Wire, T-630 JD4045T 23 Pin ECU	1
2	E122	Terminal Vi Spade (8-st) 22-16	3
3	E784	Loom Wire 13/32	1
4	80575-114	Ladd Strain Relief Shell Size 24	1
5	38RH	38" Red Rubber hose	1
6	TY-570	Tie Wrap	1
7	80575-101	Plastic Plug, 23 Pin	1
8	832-34RHMS	Screw Rh Mach. 8-32x 3/4	1
9	832SLN	Nut Self-lock 8-32	1
10	80575-104	Plug, Sealing Size 12-16	20
11	80575-103	Socket, Stamped & Forged # 16-18	3



One Required Per Unit

8197313	DR. BY few
T-630	DATE 8/15/2005
Wire, T-630 JD4045T 23 Pin ECU	SCALE: HALF
	8197313

TUCKER'S MACHINE & STEEL SERVICE INC.
P.O. BOX 492810 LEESBURG, FLA. 34749-2810

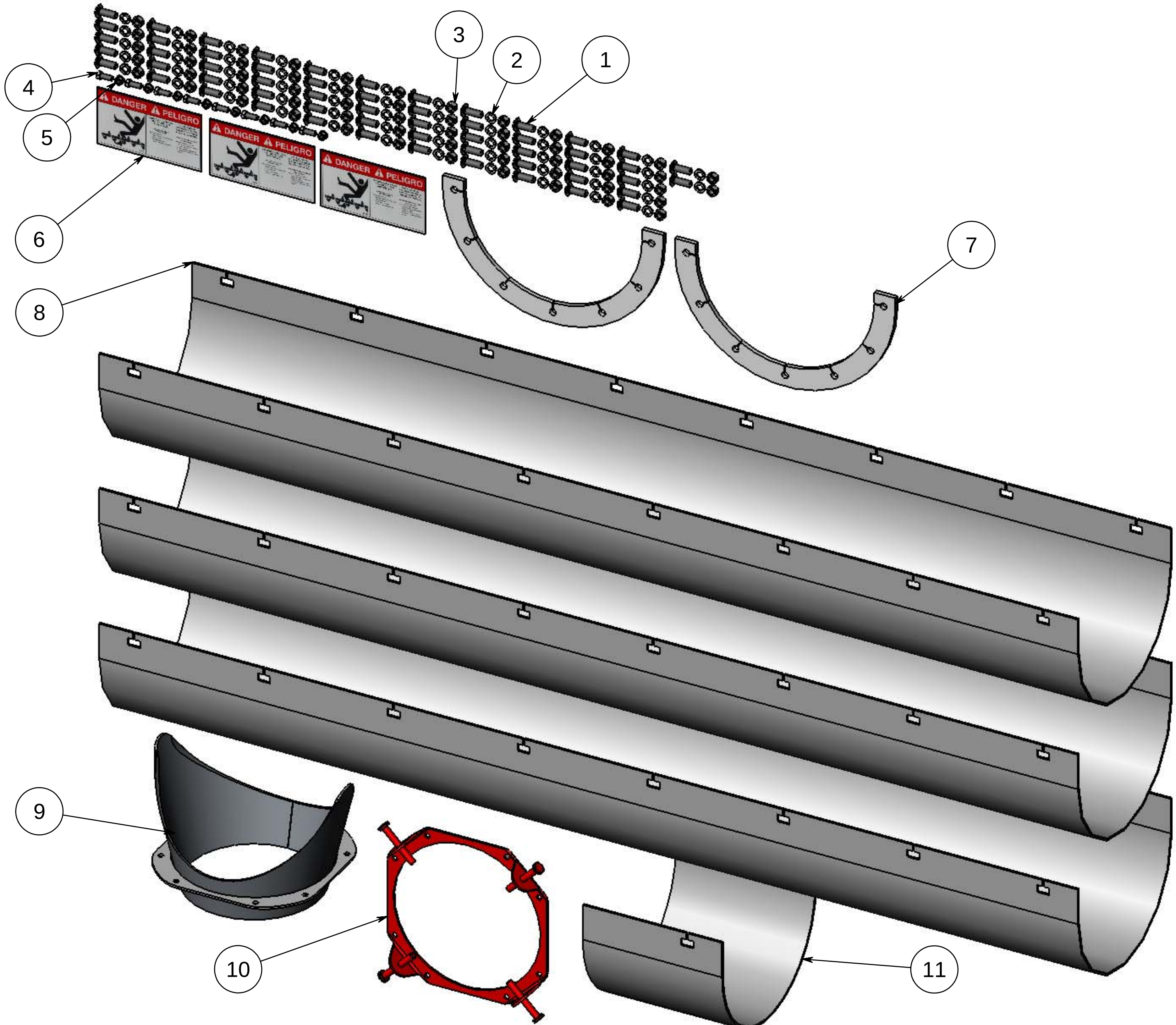


RADIATOR - HIGH DEBRIS

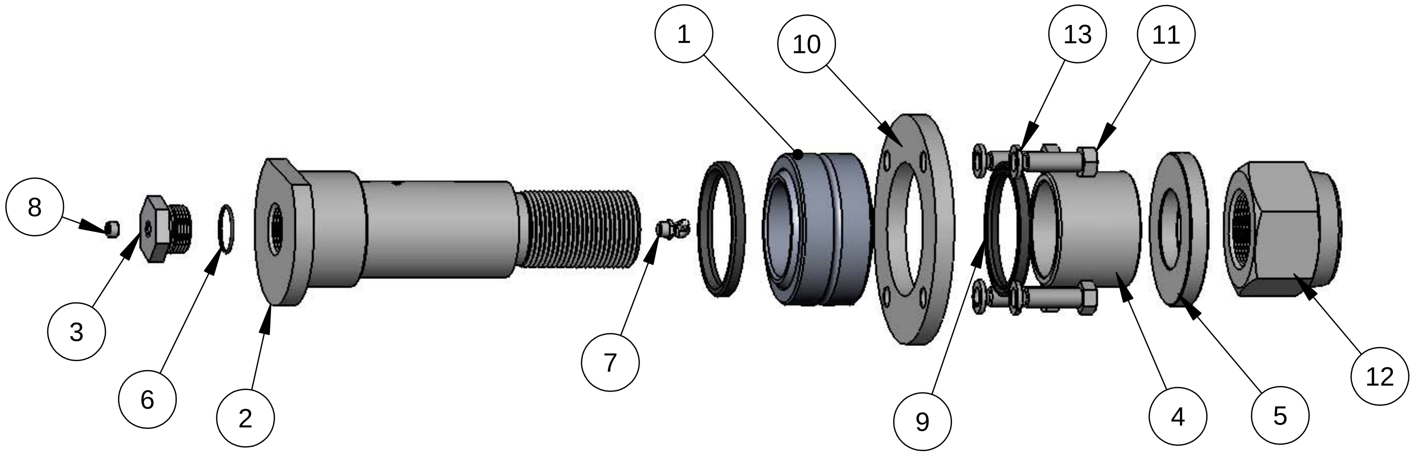
80575-58M few

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	80575-58L	Radiator-J.D.-4045 w/Level Port	1
5	80575-58L Shroud	Radiator-J.D.-4045 w/Level Port(Shroud)	1
6	81757-02	JD 4045 Radiator Guard Spacer	4
7	80575-91	4045 Water Fan Finger Guard	1
8	81757-01	JD 4045 Radiator Bracket	2
9	38-1CS	Screw Cap .375 X 1	8
10	516FW	Washer Flat .3125	4
11	516-114CS	Screw Cap .3125 X 1.25	4
12	80575-73	4045 TOP RADIATOR HOSE	1
13	80575-74	4045 BOTTOM RADIATOR HOSE	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	12-112CB	Bolt Carriage 1/2 x 1 1/2	57
2	LW 0.5	Washer Lock .5	57
3	12N	1/2-13 Hex Nut	57
4	38-1CS	Screw Cap .375 X 1	8
5	38FN	Nut Flanged L.3/8-16	8
6	80154	Label Auger Danger	3
7	81524	Flange Chute Bolt	2
8	81525	Chute Skin	3
9	819781	Spout Assembly	1
10	8197813	Funnel Flange Assy. T-630 Gate Spout	1
11	81525-12	Chute Skin 12" Section	1

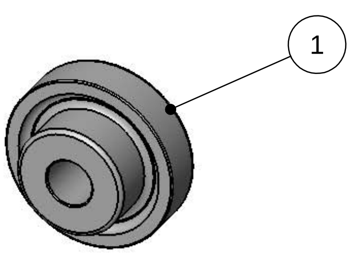


81990-12		DR. BY few
T-630		DATE 2/6/2006
TUCKER'S MACHINE & STEEL SERVICE INC. P.O. BOX 492810 LEESBURG, FLA. 34749-2810	Chute Liner Kit T-630 - 22'	SCALE: NONE
		81990-12



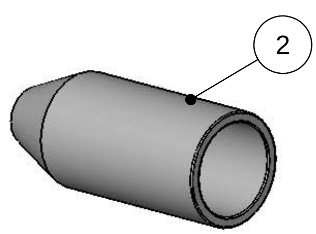
Kit Top Repair Articulate 81070-TRK

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80304	Bearing Articulate	1
2	81070	Pin Articulate	1
3	81070-10	Articulate Shaft Thread Plug	1
4	81075	Spacer Articulate Pin	1
5	81076	Washer Articulate Pin	1
6	568-024	O-Ring 568-024	1
7	18GF-90	90 Deg 1/8 Grease Fitting	1
8	2222-2S	1/8" NPT Plug-Aeroquip 2222-2S	1
9	80505	Seal Articulate Pin	2
10	81124	Retainers Top Bearing	1
11	12-112CS	Screw Cap .5 X 1.5	4
12	2-8SLNF	Nut Lock Self Sae 2"-8	1
13	12LW	1/2" Std. Spring Lock Washer	4



Articulate Brg Install Tool

80170-02

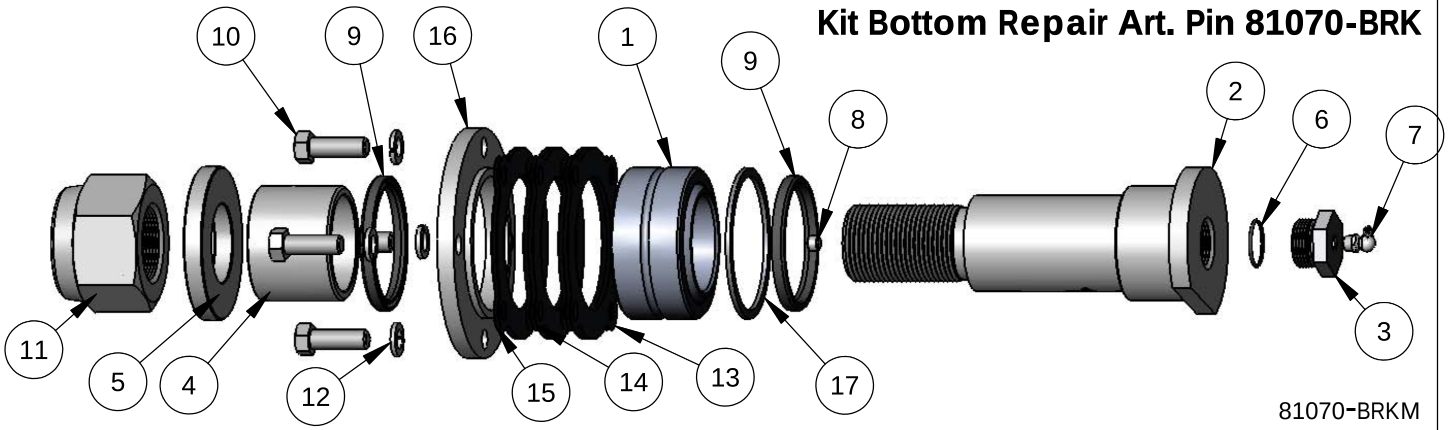


Pin Articulate Alignment Tool

81070-01

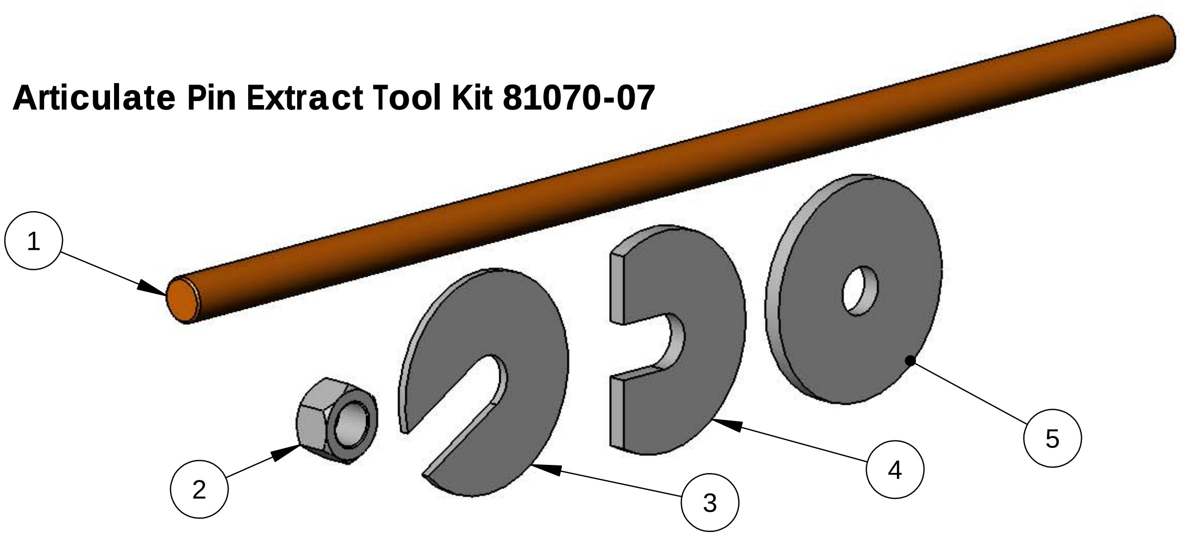
Note: Not part of Repair Kit

Kit Bottom Repair Art. Pin 81070-BRK

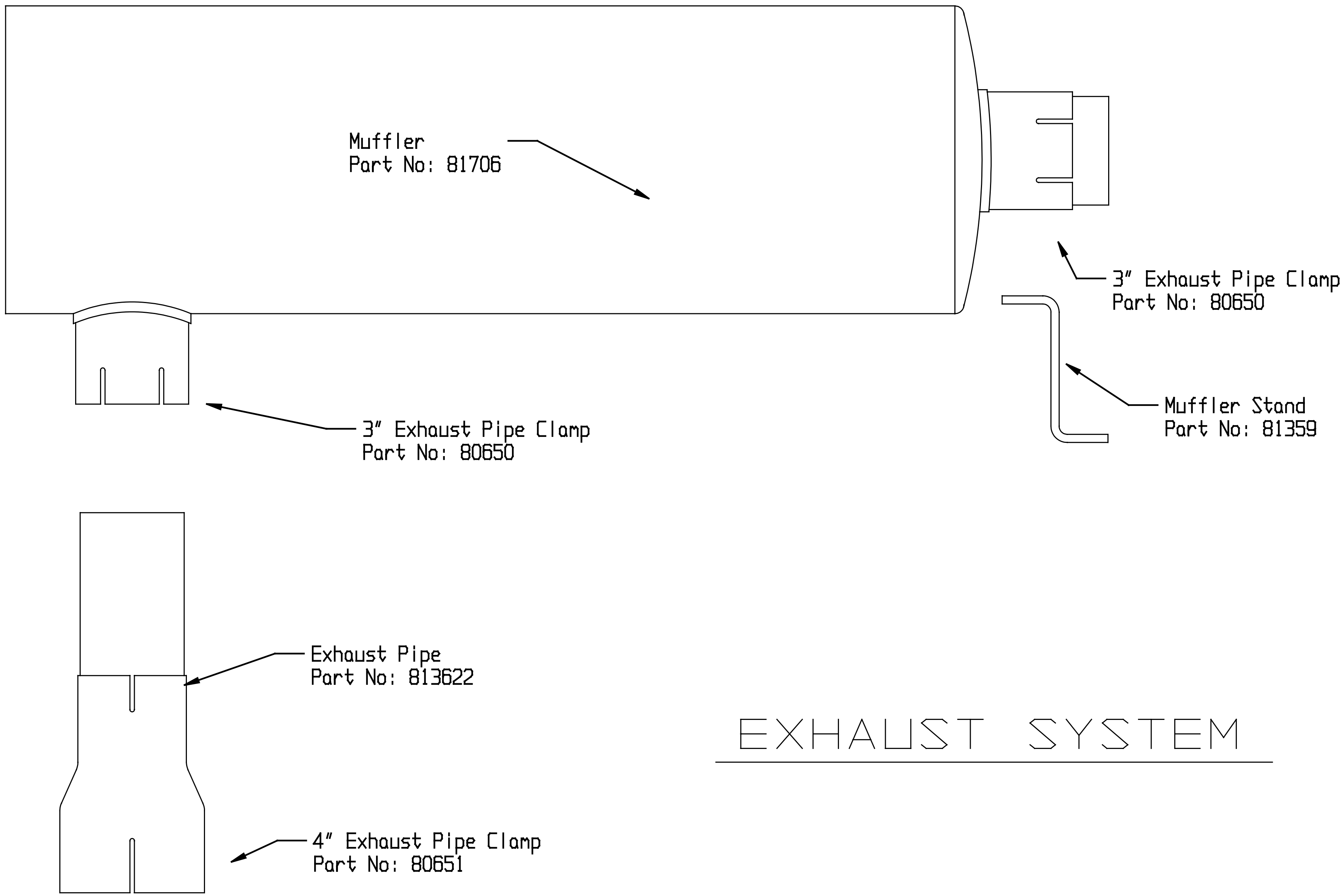


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80304	Bearing Articulate	1
2	81070	Pin Articulate	1
3	81070-10	Articulate Shaft Thread Plug	1
4	81075	Spacer Articulate Pin	1
5	81076	Washer Articulate Pin	1
6	568-024	O-Ring 568-024	1
7	18GF-90	90 Deg 1/8 Grease Fitting	1
8	2222-2S	1/8" NPT Plug-Aeroquip 2222-2S	1
9	80505	Seal Articulate Pin	2
10	12-112CS	Screw Cap .5 X 1.5	4
11	2-8SLNF	Nut Lock Self Sae 2"-8	1
12	12LW	1/2" Std. Spring Lock Washer	4
13	80307	.005 Shim, Timkin #K21605	3
14	80308	.007 Shim Timkin # K21607	3
15	80309	.020 Shim, Timkin # K21620	2
16	81125	Retainers Bottom Bearing	1
17	81078	Spacer Articulating Bearing	1

Articulate Pin Extract Tool Kit 81070-07

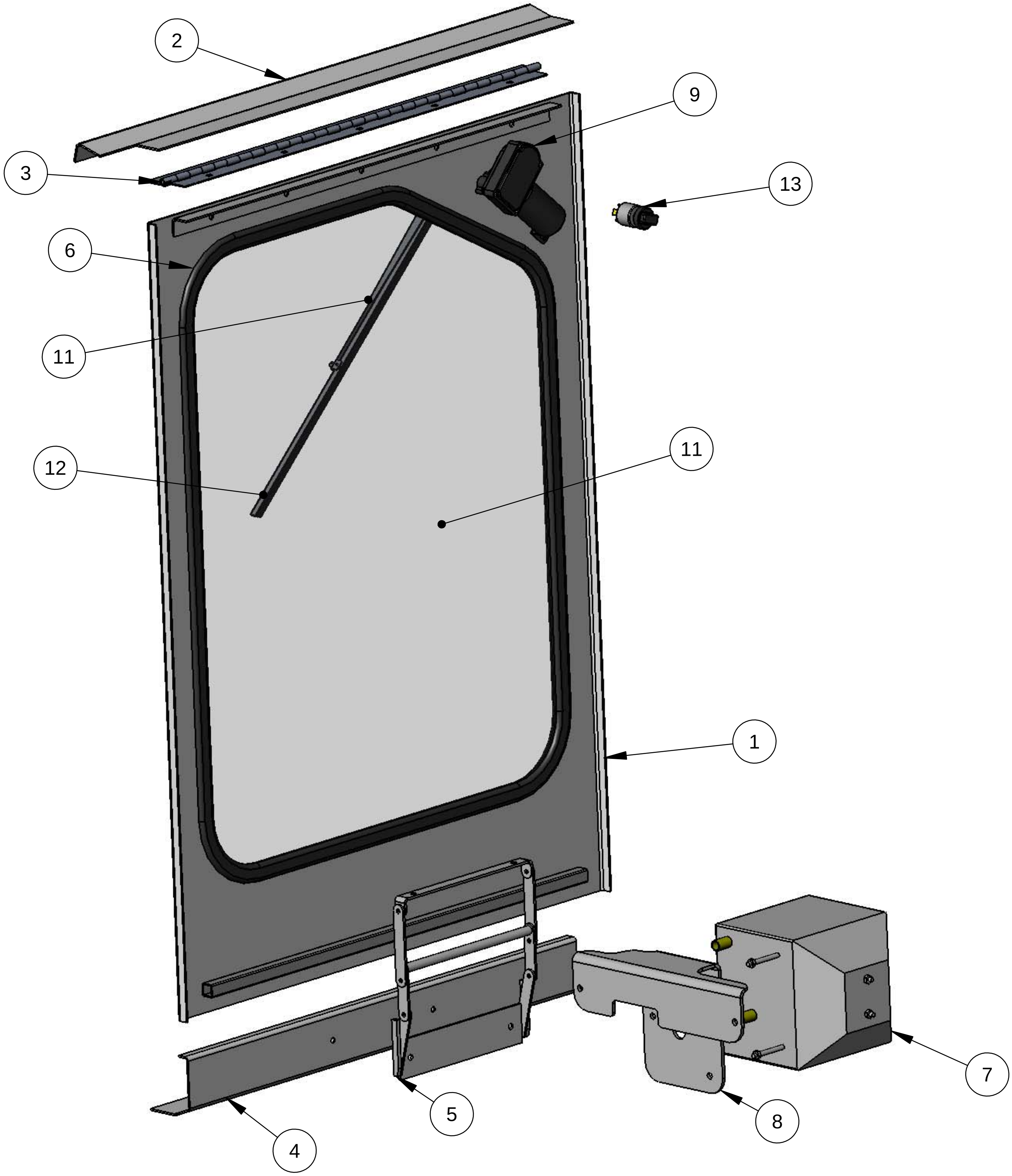


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81070-03	Articulate Pin Extract Rod	1
2	114-SLNF	Nut Self Lock Fine 1.25	1
3	81070.04	Articulate Pin Extract Shim 1/4"	1
4	81070-05	Articulate Pin Extract Shim 1/2"	1
5	81070-06	Articulate Pin Extract Pull Washer	1



EXHAUST SYSTEM

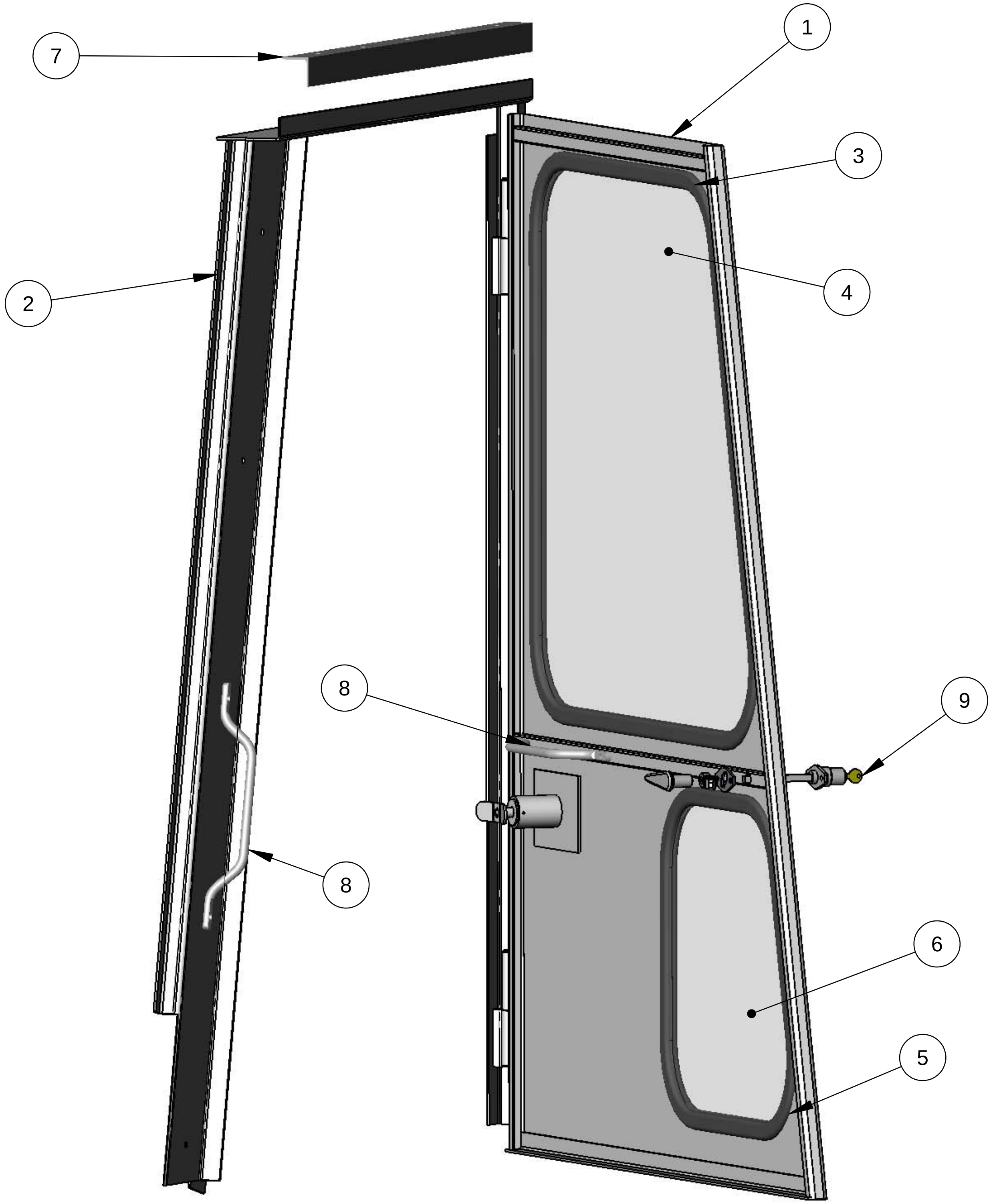
91656



CAB ENCLOSURE - WINDSHIELD

81987-70M

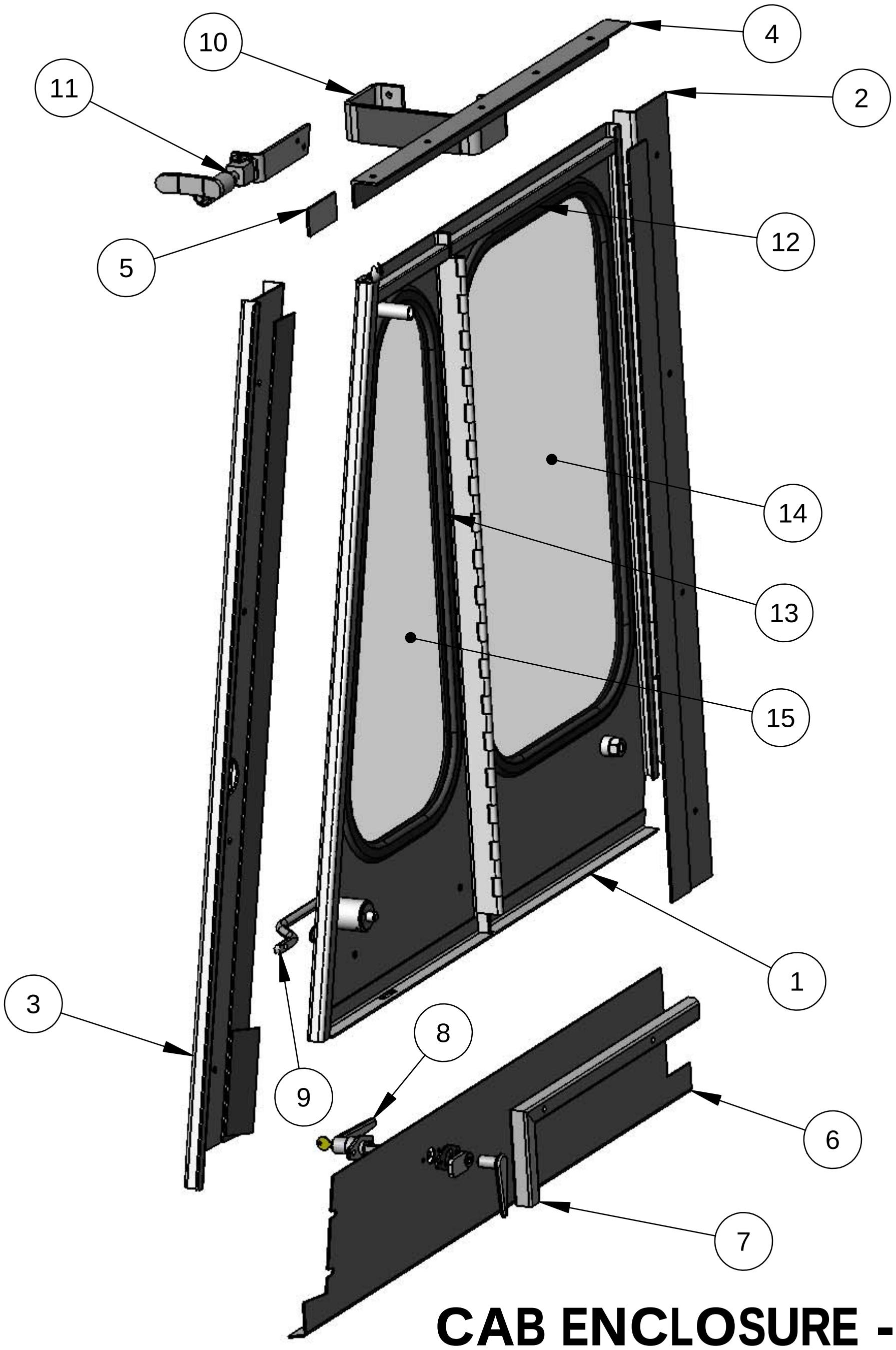
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81987-70	Windshield Assy.	1
2	81987-75	Drip Edge Windshield	1
3	81987-74	Hinge Windshield	1
4	81987-76	Panel Lower Windshield	1
5	81987-80	Opener Assy. Windshield	1
6	80991WS	T-630 Cab Glass Weatherstripping	1
7	81995-15	Heater Cab T-630	1
8	81987-119	Bracket Cab Heater Mount	1
9	81995-06	Motor Wiper T-630	1
10	91995-02	Arm Wiper T-630	1
11	81995-201	Glass, T-630 Cab Windshield (36 1/2 X 29)	1
12	81995-07	Wiper Blade T-630	1
13	81995-03	Switch Wiper T-630	1



CAB ENCLOSURE - LEFT DOOR

81987-10M

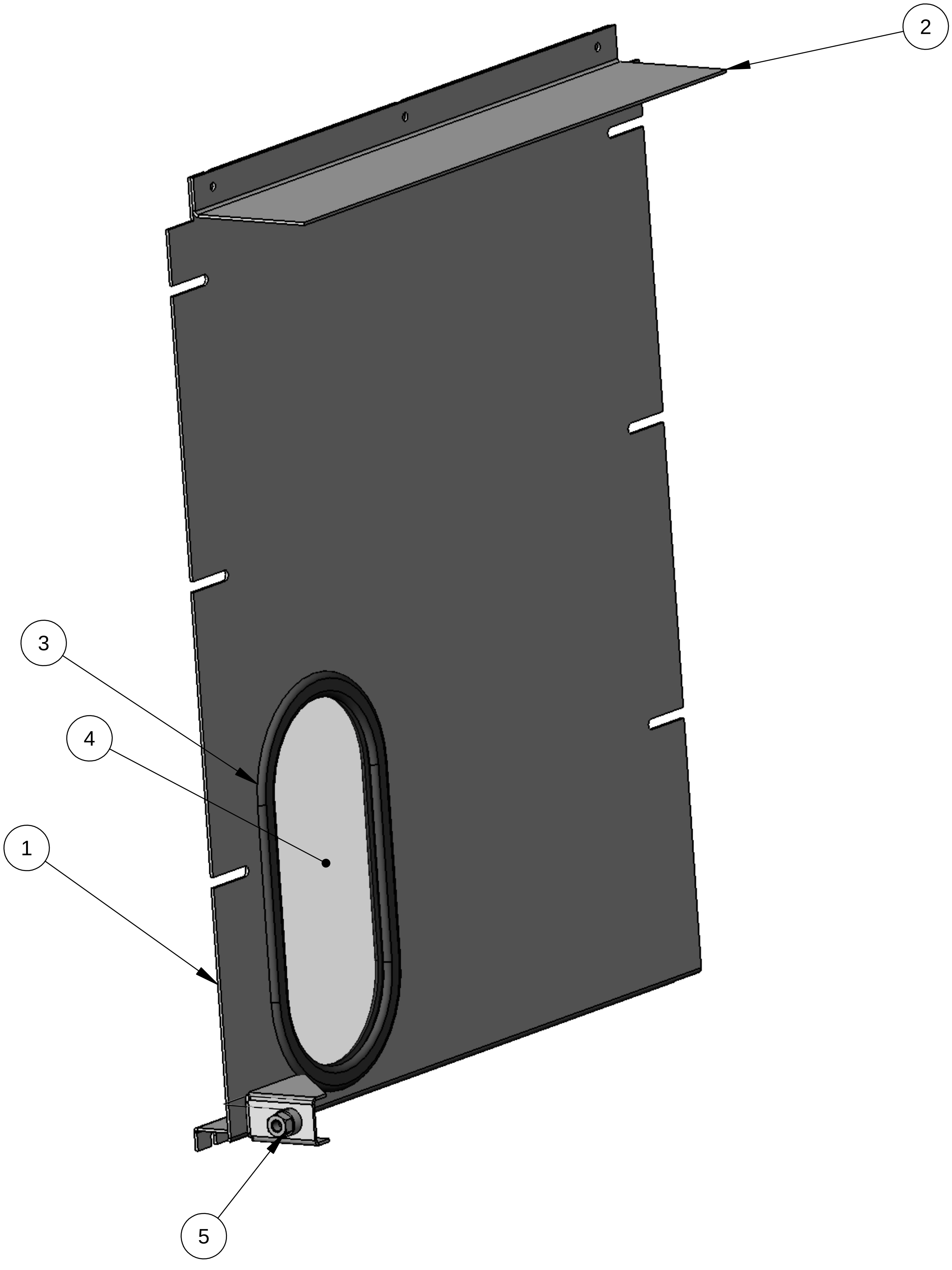
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81987-10	Door Assy. Left Cab	1
2	81987-30	Frame Assy. L Cab Door	1
3	80991LDL	T-630 Cab Glass WeatherstrippingLDL	1
4	81995-202	Glass, T-630 Cab L. Door Top (31 X 31)	1
5	80991LDS	T-630 Cab Glass WeatherstrippingLDS	1
6	81995-203	Glass, T-630 Cab L. Door Bottom (18 X 18)	1
7	81987-37	Header Left Door Cab	1
8	81995-18	Handle (chrome) T-630 Cab	2
9	81987-200	Left Cab Door Handle Kit - Keyed	1



81987-40M

CAB ENCLOSURE - RIGHT DOOR

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81987-40	Door Assy. R. Cab	1
2	81987-60	Frame Assy. Rear R. Dr	1
3	81987-66	Frame Front Assy. R Door	1
4	81987-59	Header Right Door Cab	1
5	Filler Plate	10 GA Filler Plate	1
6	81987-63	Plate Kick R Door Cab	1
7	81987-65	Spacer R Door Kick Plate	1
8	81987-201	Right Cab Door Handle Kit - Keyed	1
9	81995-18	Handle (chrome) T-630 Cab	1
10	81987-100	Stop Assy. Hopper R. Door	1
11	81987-110	Latch Assy. R. Hopper Door	1
12	80991RDL	T-630 Cab Glass Weatherstripping RDL	1
13	80991RDS	T-630 Cab Glass Weatherstripping RDS	1
14	81995-205	Glass, T-630 Cab R. Door Rear (18 X 30)	1
15	81995-204	Glass, T-630 Cab R. Door Front (14 X 30)	1



CAB ENCLOSURE - REAR

81987-90M

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	81987-90	Plate Cab Rear	1
2	81987-95	Plate Cab Rear Filler Plate	1
3	80991R	T-630 Cab Glass Weatherstripping	1
4	81995-206	Glass, T-630 Cab Rear (8 X 16)	1
5	81987-92	Catch Assy. L Door	1